

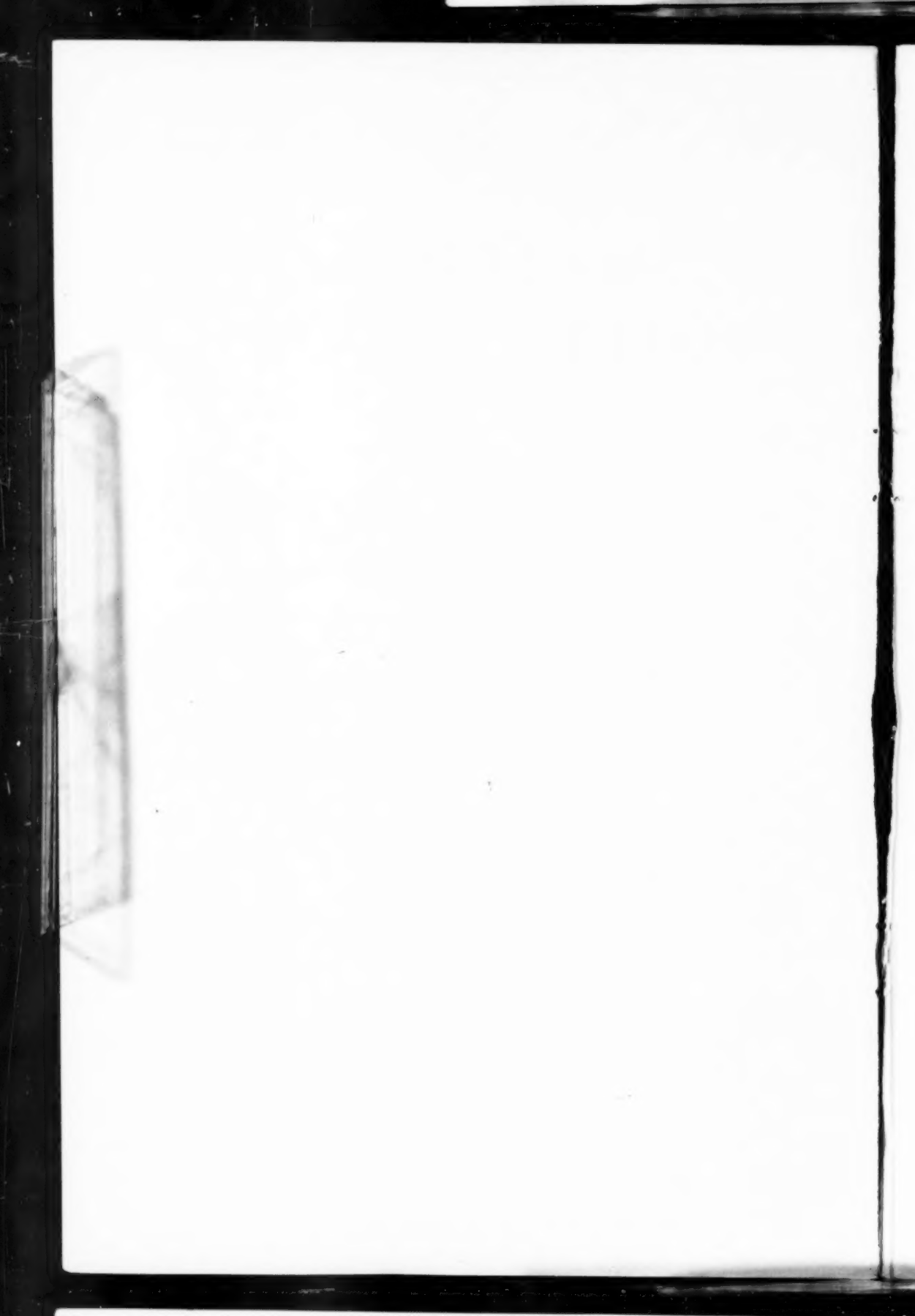
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# **AMERICAN POTATO JOURNAL**

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## INDEX TO VOLUME 29

### Author and Title Index

- Akeley, R. V., P. M. Lombard, and F. J. Stevenson. Blight-resistant potato varieties can save copper and cut cost of production. 49-52.
- Ayers, G. W., Studies on *Verticillium* wilt. 201-205.
- Azad, R. N., see Vasudeva, R. S.
- Baribeau, B., *Verticillium* wilt and seed potato certification. 157-159.
- Bensin, B. M. Experiments with Colchicine treatment of potatoes in Alaska. 165-169.
- Blodgett, F. M., see Roberts, D. A.
- Bradley, R. H. E., A rapid method of testing plants in the field for potato virus X. 289-291.
- , R. Y. Ganong, and D. W. Rideout. Aphid (*Homoptera: Aphididae*) infestations on Chippewa, Katahdin, and the newly released blight-resistant varieties. Canso and Keswick. 221-224.
- Casseres, E. H., O. Smith, and J. H. Ellison. Effect of Thiourea on the number of stems, on the tuber set and on the yield of Katahdin, Kennebec, and Sebago potatoes. 89-96.
- Cox, C. E., see Jehle, R. A.
- Craft, C. C., see Heinze, R. H.
- Cunningham, C. E., P. J. Eastman, and M. Goven. Potato vine killing methods as related to rate of kill, vascular discoloration and virus disease spread. 8-16.
- , see Highlands, M. E.
- , see Terman, G. L.
- Davidsson, I. Research in potatoes. 78. (abs.)
- DeLong, D. M. Plant feeding potato insect pests and measures for their control. 151-156.
- Eastman, P. J. A successful foundation seed farm. 173-174.
- , see Cunningham, C. E.
- Eastwood, T. The effect of herbicides upon potatoes used for chipping. 160-164.
- Edgar, A. D., see Lutz, J. M.
- Edwards, P. W., A. Hoersch, Jr., C. S. Redfield, and R. K. Eskew. Drying potatoes for feed in a direct fired, rotary drier. Economic feasibility of process. 103-112.
- Ellison, J. H. Inhibition of potato sprouting by 2,3,5,6-tetrachloronitrobenzene and methyl ester of  $\alpha$ -naphthaleneacetic acid. 176-181.
- , and W. C. Jacob. Internal browning of potatoes as affected by date of planting and storage. 241-252.
- , see Casseres, E. H.
- Eskew, R. K., see Edwards, P. W.
- Filmer, R. Book Review. (Field Crop Insects by F. A. Felton) 197.
- Folsom, D. Practical control measures for leafroll. 229-233.
- Fulfs, J. L., R. J. Hay, and M. G. Payne. Nitrate content of Red McClure potatoes unchanged by 2,4-D treatment. 97-98.
- , see Payne, M. G.
- Ganong, R. Y., see Bradley, R. H. E.
- Glaves, A. H., see Lutz, J. M.
- Goven, M., see Cunningham, C. E.
- , see Terman, G. L.
- Greenwood, M. L., M. H. McKendrick, and A. Hawkins. The relationship of the specific gravity of six varieties of potatoes to their mealiness assessed by sensory methods. 192-196.
- Grossman, R., see Jacob, W. C.
- Gwinn, A. B., see Peterson, C. E.
- Hawkins, A., see Greenwood, M. L.
- Hay, R. J., see Fulfs, J. L.
- , see Payne, M. G.
- Heinze, P. H., and C. C. Craft. Variations in specific gravity of potatoes. 31-36.
- Heisler, E. G., R. H. Treadway, M. F. Osborne, and M. L. McClennan. Enzymic hydrolysis of potatoes. 37-48.
- Highlands, M. E., J. J. Licciardello, and C. E. Cunningham. Reducing sugar content of Maine-grown potatoes treated with maleic hydrazide. 225-227.
- Hoersch, A. Jr., see Edwards, P. W.
- Hoyman, W. G. Relation of water supply to xylem discoloration of potato tubers caused by vine killing. 113-122.

- Jacob, W. C., M. B. Russell, A. Klute, G. Levine, and R. Grossman. The influence of irrigation on the yield and quality of potatoes on Long Island. 292-296.
- , and M. B. Russell. The effect of tillage practices on the yield of Irish Cobbler potatoes. 136-140.
- , see Ellison, J. H.
- Jehle, R. A. A machine for planting potatoes in tuber units. 141.
- , C. E. Cox, and J. E. Moore. Early home-grown seed for planting the late potato crop in Maryland. 1-7.
- King, L. W. Washington certified seed potatoes. 53-54.
- Klute, A., see Jacob, W. C.
- Levine, G., see Jacob, W. C.
- Licciardello, J. J., see Highlands, M. E.
- Lombard, P. M., see Akeley, R. V.
- Longree, K. Factors affecting determination of surface color of peeled potatoes. 273-278.
- Lutz, J. M., A. D. Edgar, and A. H. Graves. Reducing injuries in grading stored potatoes. 234-240.
- Marth, P. C., and E. S. Schultz. A new sprout inhibitor for potato tubers. 268-272.
- Massey, P. H. Jr., H. C. Thompson, and O. Smith. Varietal susceptibility of potatoes to internal black spot. 127-135.
- McClennan, M. L., see Heisler, E. G.
- McKendrick, M. H., see Greenwood, M. L.
- McLean, J. G., and F. J. Stevenson. Methods of obtaining seed on russet Burbank and similar flowering varieties of potatoes. 206-211.
- Moore, J. E., see Jehle, R. A.
- Muncie, J. H. Comparison of certain standard and experimental fungicides in potato late blight control. 186-191.
- Osborne, M. F., see Heisler, E. G.
- O'Connor, C. F., see Van der Plank, J. E.
- Payne, M. G., J. L. Fufts, and R. J. Hay. The effect of 2,4-D treatment on free amino acids in potato tubers. 142-150.
- , see Fufts, J. L.
- Pearsall, L. W. Facts about potato quality. 182-185.
- Peters, E. H. The certification of potatoes for seed in Canada. 85-88.
- Peterson, C. E., and A. B. Gwinn. Influence of vine killing and 2,4-D on yield, specific gravity, and vascular discoloration of potatoes. 253-267.
- Redfield, C. S., see Edwards, P. W.
- Rich, A. E. Some suggestions for indexing potato tubers. 170-172.
- Rideout, D. W., see Bradley, R. H. E.
- Rieman, G. H. Report of conference. 100.
- Roberts, D. A., F. M. Blodgett, R. E. Wilkinson. Potato virus X: inoculation of potato varieties tolerant to virus Y. 212-220.
- Russell, M. B., see Jacob, W. C.
- Schultz, E. S., see Marth, P. C.
- Slagg, C. M. Tuber symptoms of calico. 123-124.
- Smith, O., Book Review. (Potato Crisps by A. E. Williams) 99.
- , see Casseres, E. H.
- , see Massey, P. H.
- Smith, W. L. Effects of storage temperature, injury and exposure on weight loss and surface discoloration of new potatoes. 55-60.
- Stevenson, F. J., see Akeley, R. V.
- , see McLean, J. G.
- Terman, G. L., C. E. Cunningham, and M. Goven.
- Thompson, H. C., see Massey, P. H. Jr.
- Treadway, R. H. Uses of potato starch and potato flour in the United States. 79-84.
- , see Heisler, E. G.
- Van der Plank, J. E., and C. F. O'Connor. *Datura Ferox*: a test plant for potato virus Y. 125-126.
- Vasudeva, R. S., and R. N. Azad. Efficacy of certain fungicides against potato late blight and assessment of loss due to the disease. 61-71.
- Wallis, R. L. Cull potato piles as breeding places for Potato Psyllid and tuber flea beetle. 17-22.
- Wilkinson, R. E., see Roberts, D. A.

## Subject Index

- Alaska, colchicine treatment of potatoes, 165-169.  
 Amino Acids, effect of 2,4-D on tuber content, 142-150.  
 Aphids (*Homoptera: Aphididae*), infestations of four varieties, 221-224.  
 Black spot, Internal, varietal susceptibility, 127-135.  
 Blight, Late  
     control  
         comparison of fungicides (Mich.), 186-191.  
         efficacy of fungicides (India), 61-71.  
     resistance  
         aphid population on Canso and Keswick, 221-224.  
         varieties save copper, 49-52.  
 Blodgett, Forest Milo, obituary, 23-24.  
 Book reviews, Felton, F. A., Field Crop Insects, 197  
     Williams, A. E., Potato Crisps, 99-100.  
 Brown, Bailey Edgar, obituary, 72.  
 Brown spot, see Internal Browning  
 Breeding, method of making Russet Burbank useful for, 206-211.  
     potato breeders field conference (North Central States), 100.  
 Burbank variety, see Russet Burbank  
 By-products, feed in direct-fired rotary drier, 103-112.  
     starch and flour uses in United States, 79-84.  
     potato hydrolyzates for fermentation, adhesives, binders, sizers, thickeners and  
     glues, 37-48.  
     see Potato Chips  
 Calico (disease), tuber symptoms, 123-124.  
 Canada, seed certification, 85-88.  
     Verticillium wilt, 157-159.  
 Canso variety, aphid infestations on, 221-224.  
 Certification, Seed, see Seed Certification  
 Chippewa, aphid infestations on, 221-224.  
 Chips, Potato, see Potato Chips  
 Chromosome doubling, colchicine treatment in Alaska, 165-169.  
 Color, factors affecting surface color of peeled potatoes, 273-278.  
 Conference report, see Breeding  
 Culinary Quality, in relation to dry matter, 182-185.  
     in relation to surface color of peeled tubers, 273-278.  
     relation of specific gravity of six varieties to mealiness as assessed by sensory  
     methods, 192-196.  
 Cull potato piles, a breeding place for Potato Psyllid and Tuber Flea beetles, 17 21.  
*Datura ferax*, a test plant for potato virus Y, 125-126.  
 Dehydration, See By-products  
 Discoloration  
     Surface  
         effect of storage, injury and exposure on new potatoes, 55-60.  
         of peeled potatoes, 273-278.  
     Vascular  
         related to rate of vine killing, 8-16.  
         related to water supply and vine killing, 113-123.  
     See Internal Browning and Internal Black Spot  
 Diseases, see specific names such as Calico  
 Drying, see By-products  
 Fermentation, see By-products  
 Flour, see By-products  
 Foundation, see Seed  
 Fungicides, for late blight control (India), 61-71.  
     standard and experimental for late blight control (Mich.), 186-191.  
 Grading, reducing injuries of stored potatoes, 234-240.  
 Herbicides, effect on chipping quality of potatoes, 160-164.  
     see also Vine Killing  
 Hydrolysis, enzymic, 37-48.  
 Hormones, Plant, see Sprout Inhibitor and Rest Period

- Iceland, potato diseases in (Abs.) 78  
Indexing, suggestions for, 170-172.  
Industrial utilization, see By-Products  
Injury, Mechanical, effect on weight loss and discoloration, 55-60.  
Insect (s), aphid population on various varieties, 221-224.  
    potato psyllid and tuber flea beetle, breeding places for, 17-21.  
    control measures for plant feeding pests, 151-156.  
    Field Crop Insects — book review, 197.  
Internal black spot, see Black Spot, Internal  
Internal Browning, affected by date of planting and storage, 241-252.  
Irish Cobbler varieties, effect of tillage practices on yield, 136-140.  
Irrigation, effect on yield of Irish Cobblers, 136-140.  
    effect on yield and quality, Long Island, 292-296.  
Katahdin variety, aphid infestation, 221-224.  
    effect of thiourea, 89-96.  
Kennebec variety, effect of thiourea, 221-224.  
Keswick variety, aphid infestation, 221-224.  
Leafroll, Virus, practical control measures, 222-233.  
Maine, see Maleic hydrazide, Reducing sugars, Seed and Vine Killing  
Maleic hydrazide, effect on reducing sugar content, 225-227.  
Martin, William, H., honored, 72.  
Mealiness, relation to specific gravity, 192-196.  
Meeting(s) — see Potato Association of America  
New potatoes (immature crop), effect of storage temperatures, injury and exposure  
    on weight loss and surface discoloration, 55-60.  
Nitrate content, of Red McClure potatoes unchanged by 2,4-D, 97-98.  
Peeled potatoes, factors affecting surface color, 273-278.  
Planting, effect of date on internal browning, 241-252.  
    tuber units by machine, 141.  
Potato Association of America, announcement of annual meeting, 126.  
    minutes of executive committee and annual meeting, 25-27.  
    program of annual meeting, 198-200.  
    treasurer's report, 28.  
Potato Chips, effect of herbicides on, 160-164.  
    effect of maleic hydrazide on, 225-227.  
    Potato Crisps — book review, 99-100.  
Production, cost reduced by use of blight resistant varieties, 49-52.  
Quality, Culinary, see Culinary Quality  
Quality (market), affected by vine killing, 8-16.  
    grade, *etc.*, 182-185.  
    see Irrigation  
    see Storage  
    see Grading  
Red McClure variety, nitrogen content unchanged by 2,4-D treatment, 97-98.  
Reducing sugars, content of Maine potatoes affected by maleic hydrazide, 225-227.  
Research, in Iceland, 78 (abs.)  
Rest period breaking, of early home-grown seed, with numerous chemicals, for  
    planting late crop (Md.), 1-7.  
Russet Burbank variety, method of obtaining true seed from, 206-211.  
Sebago Variety, effect of thiourea on, 89-96.  
Seed (potato), colchicine treatment, 165-169.  
    early home-grown for planting late potatoes (Md.), 1-7.  
    foundation seed farm (Me.), 173-174.  
    indexing method, 170-172.  
    planting tuber units by machine, 141.  
    true seed from Russet Burbank, 206-211.  
Seed, Certified, Washington state, 53-54.  
Seed, Certification, in Canada, 85-88.  
    affected by Verticillium wilt, 157-159.  
    aided by foundation seed farm, 173-174.  
Specific gravity, influence of vine killing and 2,4-D, 253-267.  
    influenced by irrigation, 292-296.  
    relationship to mealiness, 192-196.  
    variations in 6 varieties, affected by storage and humidity, 31-37.

- Sprouting, affected by thiourea, 89-96.  
induced by seed treatment with several chemicals, 1-7.  
inhibited by 2, 3, 5, 6-tetrachloronitrobenzene and methylester of  $\alpha$ -naphthalene-acetic acid, 176-181.  
a new inhibitor 3-chloro-isopropyl N-phenyl carbamate and other chemicals, 268-272.
- Starch (potato), conversion to sugar by several methods, 37-48.  
uses of in United States, 79-84.
- Storage, effect of temperature and humidity on specific gravity, 31-37.  
effect of temperature on discoloration of new potatoes, 55-60.  
effect on internal browning, 241-252.  
effect on grading, 234-240.
- Stuart, William, obituary, 22.
- Sugar Content, conversion by commercial methods, 37-48.  
reduction of, in Maine-grown potatoes, 225-227.
- Surface Color, discoloration affected by storage, injury and exposure, 55-60.  
of peeled potatoes, 273-278.
- Talmage, Henry R., obituary, 76-77.
- Tillage practices, effect on yield of Irish Cobblers, 136-140.
- Tuber(s), discoloration, see Surface Color  
effect of 2,4-D on free Amino Acids in, 142-150.  
flea beetles, see Insects  
Indexing suggestions, 170-172.  
new sprout inhibitor for, 268-272.  
nitrate content of Red McClure unchanged by 2,4-D, 97-98.  
relation of water supply to xylem discoloration caused by vine killing, 113-122.  
symptoms of calico, 123-124.  
set affected by thiourea, 89-96.  
unit planting by machine, 141.
- Tucker, John, honored, 73-74.
- 2,4-D applications, effect on nitrate content of Red McClure, 97-98.  
effect on free amino acids, 142-150.  
effect on yield, specific gravity and vascular discoloration, 253-267.
- Varieties, aphid infestations of, 221-224.  
blight-resistant, 49-52 — 221-224.  
susceptibility to internal black spot, 127-135.  
relationship of specific gravity to, 192-196.  
see also under specific names
- Vascular discoloration, see Vine killing
- Vine killing, and 2,4-D on yield, specific gravity, and vascular discoloration, 253-267.  
effect of date and method on yield, specific gravity, etc. (Me.) 279-289  
effect on potato chips, 160-164.  
influence on yield, specific gravity and vascular discoloration, 53-67.  
methods as related to rate of kill, vascular discoloration and virus disease spread, 8-16.  
relation of water supply to xylem discoloration caused by, 113-122.
- Verticillium Wilt, related to seed certification, 157-159.  
studies on, 201-205.
- Virus(es), calico — tuber symptoms, 123-124.  
leafroll — practical control measures, 229-233.  
leafroll spread affected by vine-killing, 8-16.  
effect of inoculation of Placid variety with X on virus Y *Datura ferox* a test plant for virus Y, 125-126.  
field testing for virus X, 289-291.
- Wilt, Verticillium, see Verticillium wilt
- Yield, as affected by  
colchicine treatment, 165-169  
irrigation, 136-140; 292-296.  
late blight, 61-71  
thiourea, 89-96  
tillage practices, 136-140  
Virus X and Y, 212-220.  
Vine killing and 2,4-D, 253-267.



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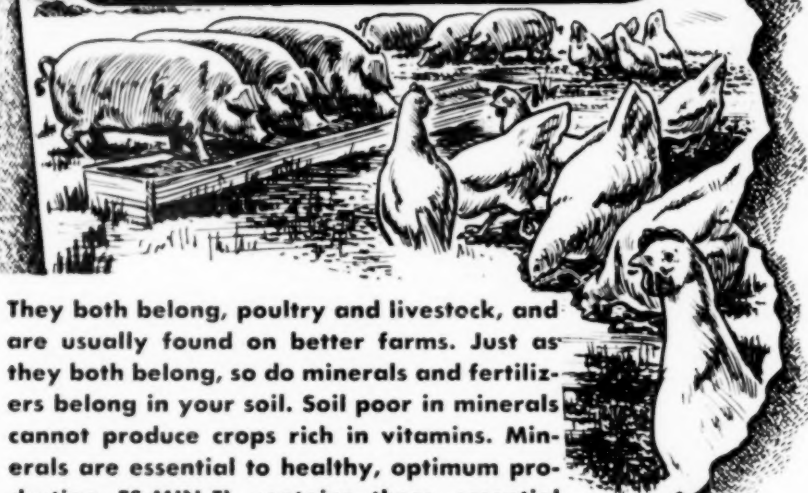


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## TABLE OF CONTENTS

Advertiser's Index .....	75
Associations Engaged in Improvement of the Potato Industry .....	7, 8, 9, 10
Booklets and Pamphlets,	
Helpful .....	68, 69
Buyer's Guide .....	73, 74, 75
Canada, Associations Engaged in the Improvement of the Potato Indus- try .....	32, 33
Canada, Seed Certification Officials	31
Canada, Seed Potato Certification, 1951 .....	30
Canadian Potato Production, 1951 ....	31
Recent Developments in the Use of Portable Irrigation Systems in Po- tato Production Areas ....	22, 23, 24, 25
More For Your Money	
Inside Back Cover	
National Potato Council .....	65
Potato Advisory Committee .....	35
Potato Association of America	
Back Cover	
Potato Culture in the United States	
A List of References	
13, 14, 15, 16, 18, 19, 20	
Potato, Monthly and Quarterly	
Periodicals .....	34, 35
Potato, Present Day Importance of	
Varieties in U.S. and Alaska ....	28, 29
Potatoes, Acreage Harvested, Yield Per Acre and Production in U.S.A., Crop of 1951 .....	54, 55
Potatoes, Amount of Seed Required	
Inside Back Cover	
Potatoes, Merchantable Stocks as of Jan. 1, 1952 .....	36
Potatoes, Prices and Values of 1950 and 1951 Crops, by States .....	56, 57
Potatoes, Production and Farm Dis- position of 1950 .....	52
Potatoes, Production and Farm Dis- position of 1951 .....	53
Potatoes, Production by Specific Areas .....	Inside Front Cover
Potatoes, U.S.A., Production of Cer- tified Seed .....	38, 39, 42, 44, 45, 46, 47, 48, 49, 50
Potatoes, World Production of	70, 71, 72
Research (Potato), Projects and Per- sons Engaged in .....	58, 59, 60, 61, 62, 63, 64
Rules and Regulations Affecting Ship- ment of Seed Potatoes .....	26
Scab Control Experiments .....	51
Seed Certification Officials in the United States .....	11
State Agricultural Colleges and Ex- periment Stations .....	66, 67
How Temperature Affects Potatoes in Storage .....	51

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Weld County Certified Potato Growers Association, P.O. Box 1609, Greeley, Colo. President, A. D. King, Eaton, Colo.; Vice-President, Charles L. Keirnes, Eaton; Secretary, J. Ben Nix, Eaton.

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Florida Potato Council, (A division of Florida Fruit and Vegetable Association), 4401 East Colonial Drive, Orlando, Fla. Chairman, J. Abney Cox, Princeton, Fla.; Vice-Chairman, Graham W. Lee, Hastings, Fla.; Secretary-Treasurer, La Monte Graw, Orlando.

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Indiana Potato Growers Association, Akron, Ind.

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First came the development of light-weight steel pipe. This preceded World War II. It made portable irrigation a possibility, but it still was a heavy and cumbersome job.

Immediately after World War II, extruded aluminum pipe became available. In 1946 one million pounds of extruded aluminum pipe was sold for irrigation purposes. Four years later, in 1950, 19 million pounds of extruded aluminum pipe was sold for irrigation. Advice from the manufacturers indicates that this was nearly 20 million feet. Due to government restrictions on aluminum, there was a decrease in aluminum pipe sales in 1951 to what one of the biggest manufacturers of extruded aluminum pipe describes as "much less than the actual demand".

Statements from the industry on the sales of aluminum pipe indicate that considerable main, sprinkler, or gated pipe is going into the older irrigated sections of the country, where furrow irrigation has long been practiced. There is an estimate from one concern that 44 per cent of all aluminum irrigation pipe was sold west of the Rockies in 1950. The sales in the Southeast were 28 per cent, in the Northeast, 9 per cent, and all other areas used the balance, 19 per cent, of aluminum irrigation pipe sold in 1950.

If we look at some of the preliminary figures from the 1950 census, we find the following in terms of total acres of land irrigated and the amount of it that was done by sprinkling:

	Total acres irrigated		Acres irrigated by sprinklers - 1949
	1944	1949	
Connecticut	496	8,088	7,669
Maryland	287	697	568
Massachusetts	11,355	18,507	6,706
New York	10,316	19,248	16,361
Vermont	6	303	259
Wisconsin	4,569	9,781	7,492

In this 5-year period there was an increase of more than 50 per cent in the total acres of land irrigated in the above states. Observations by the author indicate that most of this increase can be assumed to be in portable irrigation systems. This in itself is one of the most important recent developments in the use of portable irrigation systems.

### Perforated Pipe vs Rotating Sprinklers

Another development is the perforated sprinkler pipe. We probably will be better able to evaluate the importance of that development at some future date. (See figure 1.) Perforated pipe has the advantage of requiring only very low pressures — from 6 to 25 psi (pounds per square inch), but has the disadvantage of covering a width of only 40 to 45 feet. It is excellent for watering experimental plots as it sprinkles rectangular areas, and with fair uniformity.

The other extreme from perforated pipe might be said to be the giant irrigating nozzles. (Figure 2.) These nozzles will water circles up to 400 feet in diameter. They require a large volume of water at a high pressure and probably are not practical for fields of less than 20 to 25 acres, due to the problem of fitting the pattern of circles together. Another problem of the big nozzles is the high pressure required to operate them — usually 90 psi or more at the entrance to the nozzle. That takes a lot of power. If lower pressures are used, the size of the drops becomes so large that the surface of the soil is quickly puddled and compacted so that the rate of penetration is reduced for further irrigations or for rain.

<sup>1</sup>Presented at the annual meeting of the Potato Association of America at Cincinnati, Ohio, December 11-13, 1951.

<sup>2</sup>Professor of Vegetable Crops, Cornell University, College of Agriculture.



*Fig. 1.*

Figure 1. Perf-O-Rain, a perforated aluminum irrigation pipe, in action. This operates on pressures from 6 to 25 psi at the beginning of the perforated sections. These low operating pressures mean fuel economy.



*Fig. 2.*

Figure 2. Giant irrigating nozzle, covering a circle 400 feet in diameter with a pressure of 90 psi at the nozzle. The high fuel consumption, the problem of fitting the circular patterns together and the puddling of the soil surface caused by the big size of the drops when the pressure is too low will limit the use of this equipment. It has the advantage of saving some pipe movement if the fields are the right width.

Small rotating nozzles that will water circles from 40 to 80 feet in diameter are most commonly used at present. These require risers every 20 or 40 feet along the irrigating line and generally operate best at pressures above 30 psi.

### Moving Pipe

The two most costly items connected with the use of portable irrigation are: (1) the depreciation and interest on the investment and, (2) the labor to move the pipe. Careful planning will help to keep down the investment, but little else can be done about it. In fact, it may be less expensive in the long run to invest in enough pipe to reduce labor costs. For example, it is desirable to have twice as much sprinkler pipe as will be used at any one time, so that the labor can be used to lay one line while the other is operating.

Many growers and engineers have thought that if there was only a quick and easy way to move pipe out of the mud, not only could labor be saved, but it would not then be necessary to buy a double supply of sprinkler line. Consequently they have mounted pipe on large wheels so that an entire line might be rolled across the field at once. They also have mounted it on skids to be hauled around by a tractor. Neither one seems very good for row crops.

A Long Island, N. Y., grower built a pipe conveyor. (Figure 3.) It works well, but probably does not save enough time to justify its cost. Thus we still have with us the problem of moving pipe.

### When To Irrigate

Perhaps there has been nothing less scientific about sprinkler irrigation than the problem of deciding when and how much to irrigate. The grower is still at the stage of feeling of the soil and guessing whether to irrigate or not. With plenty of experience, that is not too bad. Thornthwaite and others have developed elaborate formulae and charts to make the guessing more accurate, based on the temperature, humidity, and wind movement. However, since water use by the plants depends much on the size of the crop at the time, a way of measuring directly the moisture in the soil would be best.

Some devices have been developed for this purpose. One is the tensiometer. This consists of a porous clay cup buried in the soil with a tension measuring device, such as a column of mercury, attached to it. Tensiometers are very accurate but are limited in range to tensions of less than one atmosphere. This is from saturation down to moderately moist soil — too high a range to be most useful. Also tensiometers are expensive, clumsy and must be kept filled with water.

Another group of moisture measuring devices consists of electrodes buried in the soil. The electrodes may be covered with plaster of Paris, nylon or fiber glass. Insulated lead wires extend from the electrodes to a few inches or more above the surface of the ground. Usually these leads are 2 feet long and the electrodes are buried at depths of 4 to 6 inches in the crop row at planting time. A small stake is set in the row to mark the location of the electrodes.

To check the moisture content of the soil in the vicinity of an electrode, a moisture detecting meter is attached to the lead wires and a current from a small battery is sent thru the blocks. The Delmhorst moisture meter is the simplest, cheapest and most foolproof meter with which the author has had experience. It is calibrated to give readings directly in terms of the per cent of available moisture in the soil. Such readings are only approximate and should not be expected to accurately measure differences of 2 or 3 per cent in the available moisture. There is little excuse for measuring such differences when using this equipment to decide when to irrigate. It probably makes little difference whether irrigation is started at the 50, 40 or 30 per cent moisture levels. However, it is likely to make a difference whether irrigating is done at the 50 or at the 5 per cent level.

It is the experience of the author that the moisture content of the soil drops slowly from saturation or from field capacity to the 50 per cent level, probably because of the free water still in the soil, and then it drops rapidly to about the 5 per cent level. From that point down the drop is slow, probably because it is held more tightly.



Fig. 3.

Figure 3. Irrigation pipe mover. Pieces of pipe are laid on one side and are conveyed over to the other as the tractor moves forward. This makes the job easier but not much faster than the same 3 men would do without the conveyor.

To get maximum crop growth, irrigating should be done before growth is slowed by a lack of water. Probably the time to start irrigating is when the available moisture is in the 30 to 50 per cent range, and at the upper end of this range if many set-ups are necessary to cover the entire area to be irrigated.

One should have one eye on the weather map and the other on the moisture meter. However, the experienced irrigator is likely to go right ahead and irrigate when the soil gets dry and keep on irrigating until irrigation or rainfall or both have added the desired amount of water. This practice occasionally results in an excess of water in case of conflict with a heavy storm. Most of our summer rainfall comes in thundershowers. These are extremely local in nature and often poorly distributed. For example, a farmer in the Susquehanna River valley near Windsor, N. Y. was cultivating a 30-acre field of potatoes on Monday morning, July 8, 1935. About 11 o'clock his wife came down to the field and told him to come up off the river flat for there had been a bad storm between 30 and 50 miles up the river during the previous night. He decided to play safe and drive his tractor up to the barn on higher ground. Two hours later the water was 6 feet deep on his potatoes and not a single potato was harvested from that field. That is an unusual situation, of course, but it serves to emphasize the local nature of thunderstorms, which are the most usual source of summer rain.

#### Sources of Water

Streams and wells have served as sources of irrigation water for thousands of years. Large dams to hold back water from spring rains or melting snow are more recent but hardly new. Farm ponds on a large scale in the east might be classed as one of the recent developments. They have multiplied very rapidly in the last few years. The Soil Conservation Service in New York State reports the construction of 3000 farm ponds since World War II.

Many of these have been built primarily to water livestock. However, about 500 of them are of a million-gallon capacity or more. A million-gallon pond would be adequate to put 4 inches on 5 acres, figuring on approximately one-half of the water being usable and allowing for no refill from springs or from the run off that might come from a high intensity shower.

Experiments are showing the results that can be expected from irrigation. The rapid increase in the use of irrigation by farmers thruout the so-called "humid" east, indicates that it is a profitable venture. It is a form of yield and quality insurance that can be obtained in no other way.

## Rules and Regulations Affecting

## SHIPMENT OF SEED POTATOES

## into various states

**Alabama**—Certified seed Irish potato tags will only be recognized when issued by properly constituted and recognized officials or agencies of the States or territories of origin and upon determination that minimum requirements of the State of Alabama for certified seed potatoes have been complied with and properly tagged. Lead seals to close containers. (1941)

**Connecticut**—No restrictions. (1947)

**Delaware**—No restrictions. (1947)

**Florida**—It shall be a violation of the Seed Act to use the terms "certified," "registered," "inspected," or any other form of such terms unless the seed potatoes have been inspected and certified by an inspection agency of any State or Country duly recognized and approved by the Commissioner of the State of Florida. (1947)

**Georgia**—No restrictions. (1946)

**Idaho**—Must have proper certification tags attached.

**Illinois**—No restrictions. (1947)

**Indiana**—Seed potatoes bearing evidence of certification by a Department of Agriculture meet all requirements for entry into Indiana. (1935)

**Kentucky**—All containers must bear form "B" tags secured from the Director of the Experiment Station. The poundage in the bag should be completely covered by the poundage on the tag. Price of tags vary from 1 cent to 4 cents each according to weight of container. These tags are commonly secured and put on by distributors in Kentucky and not by out-of-state shippers. (1946)

**Louisiana**—Must register with Department of Agriculture. Bags must be sealed with lead seals. Must attach certificate inside car door. (1944)

**Maryland**—No law concerning the branding or tagging of potatoes but if it is Maine seed planted to certify in Maryland it must be Florida Tested. (1947)

**Massachusetts**—No restrictions. (1947)

**Michigan**—Require only a complete set of inspection reports. (1947)

**Minnesota**—No restrictions. (1947)

**Mississippi**—Sale allowed only when certified by duly authorized inspection officials of the state of origin. This means blue tag.

**Missouri**—No restrictions. (1947)

**New Hampshire**—No restrictions. (1947)

**New Jersey**—Regular blue tag.

**New York**—Regular blue tag.

**North Carolina**—Potatoes must be certified and of U. S. No. 1 quality.

**Ohio**—Must bear official certified tag of State doing the certification work, which must bear growers name and address and state where grown. (1947)

**Oregon**—No restrictions. (1947)

**Pennsylvania**—Regular blue tag. (1946)

**South Carolina**—Must bear certified tags issued by proper officials or agencies of state of origin. (1945)

**Tennessee**—Regular blue tag. (1947)

**Oklahoma**—Regular blue tag. (1948)

**Texas**—No specific law but object to sale of certified seed unless it bears genuine tag of official certification. (1947)

**Vermont**—No restrictions. (1947)

**Virginia**—No restrictions. (1947)

**West Virginia**—Each grower or shipper must register with Department of Agriculture at Charleston, W. Virginia. Fee, 1 cent each container. Must have official certification tag. (1947)

**Wisconsin**—Regular blue tag. (1947)

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**PRESENT DAY IMPORTANCE OF COMMERCIAL POTATO VARIETIES IN THE  
UNITED STATES AS ESTIMATED BY REPRESENTATIVES  
OF THE 48 STATES AND ALASKA**

STATE	VARIETIES
Alabama <sup>1</sup>	Bliss Triumph 70% ; Sebago 30%
Arizona <sup>1</sup>	White Rose, Bliss Triumph, Red Warba
Arkansas <sup>2</sup>	Bliss Triumph 90% ; Irish Cobbler 10%
California	White Rose 90% ; Russet Burbank 6% ; Pontiac 2% ; Bliss Triumph 2%
Colorado	Red McClure, Bliss Triumph, Russet Burbank, Irish Cobbler, Rural, Pontiac
Connecticut <sup>1</sup>	Green Mountain 40% ; Katahdin 40% ; Irish Cobbler, Chippewa, Rural, Sebago 20%
Delaware <sup>2</sup>	Irish Cobbler 60% ; Katahdin 20% ; Dakota Red 5% ; Sequoia 3% ; others 12%
Florida <sup>1</sup>	Sebago, Bliss Triumph, Katahdin
Georgia <sup>2</sup>	Irish Cobbler 60% ; Bliss Triumph 30% ; others 10%
Idaho <sup>1</sup>	Russet Burbank 95% ; Bliss Triumph and White Rose 5%
Illinois <sup>1</sup>	Irish Cobbler, Katahdin, Sebago, Red Warba, Chippewa
Indiana <sup>2</sup>	Katahdin 40% ; Chippewa 25% ; Irish Cobbler 25% ; Bliss Triumph, Sebago, Early Ohio, Warba, Sequoia 10%
Iowa <sup>2</sup>	Irish Cobbler 85% ; all others 15%
Kansas	Irish Cobbler 75% ; Warba 25%
Kentucky <sup>2</sup>	Early: Irish Cobbler 95% ; Bliss Triumph 5%. Late: Sequoia 60% ; Sebago 5% ; Katahdin 5% ; Irish Cobbler (seed) 30%
Louisiana	LaSoda, Bliss, Triumph, DeSoda
Maine	Katahdin 53% ; Green Mountains 26% ; Kennebec 7% ; Irish Cobbler 5% ; Chippewa 4% ; other varieties 5%
Maryland <sup>2</sup>	Irish Cobbler 50% ; Katahdin 25% ; Sebago 10% ; Pontiac 10% ; others 5%
Massachusetts <sup>2</sup>	Katahdin 50% ; Green Mountain 20% ; Irish Cobbler 15% ; Chippewa 6% ; Russet Rural 4% ; Sebago 3% ; others 2%
Michigan	Russet Rural 45% ; Sebago 20% ; Katahdin 15% ; Chippewa 5% ; Irish Cobbler 5% ; other varieties 10%
Minnesota	Red Pontiac 35% ; Russet Burbank 13% ; Red Warba 11% ; Pontiac 11% ; Early Ohio 10% ; Kennebec 7% ; Waseca 6% ; others 7%
Mississippi	Bliss, Triumph, 95% ; Katahdin 5%
Missouri <sup>2</sup>	Irish Cobbler 75% ; Bliss Triumph 15% ; Warba 5% ; others 5%
Montana	Netted Gem (Russet) 70% ; Bliss Triumph 20% ; White Rose 7% ; other varieties 3%
Nebraska <sup>2</sup>	Bliss Triumph 75% ; Progress 15% ; Red Warba 8% ; Pontiac, Katahdin, Russet Rural 2%
Nevada <sup>2</sup>	Nevada Russet
New Hampshire	Katahdin 33% ; Green Mountains 16% ; Kennebec 14% ; others 37%
New Jersey	Katahdin 60% ; Irish Cobbler 20% ; Chippewa 10% ; Kennebec 5% ; Green Mountain 2% ; others 3%
New Mexico <sup>2</sup>	Pontiac 70% ; White Rose 15% ; Irish Cobbler 10% ; Katahdin 5%
New York <sup>2</sup>	Katahdin 35% ; Green Mountain 20% ; Sebago 10% ; Irish Cobbler 10% ; Chippewa 5% ; Russet Rural 5% ; Pontiac 5% ; Ontario 5% ; Rural and Houma 5%
North Carolina	Irish Cobbler 60% ; Bliss Triumph 20% ; Sequoia and Katahdin 20%
North Dakota <sup>2</sup>	Bliss Triumph 35% ; Red Pontiac and Pontiac 30% ; Irish Cobbler 25% ; others 10%
Ohio <sup>2</sup>	Irish Cobbler 45% ; Katahdin 45% ; Sebago, Russet Rural, Chippewa, Pontiac 10%
Oklahoma <sup>1</sup>	Bliss Triumph, Red Warba, Irish Cobbler

STATE	VARIETIES
Oregon .....	Netted Gem (Russet Burbank) 70-75% ; White Rose 14-16% ; Bliss Triumph 7% ; Burbank 1% ; others 3-6%
Pennsylvania .....	Katahdin 75% ; others 25%
Rhode Island .....	Katahdin 53% ; Irish Cobbler 14% ; Green Mountain 10% ; Sebago 9% ; Kennebec 6% ; others 8%
South Carolina <sup>2</sup> .....	Sebago 70% ; Katahdin 10% ; Irish Cobbler 10% ; Bliss Triumph 5% ; Pontiac, Chippewa, Kennebec 5%
South Dakota .....	Bliss Triumph 50% ; Pontiac 50% ; Irish Cobbler 15% ; Chief 5% ; LaSoda 5% ; Warba 5%
Tennessee <sup>1</sup> .....	Irish Cobbler 80% ; Sequoia 15% ; Bliss Triumph 5% ; Katahdin trace
Texas <sup>1</sup> .....	Bliss Triumph 60% ; White Rose 20% ; Irish Cobbler 13% ; Pontiac 4% ; Katahdin 2% ; Red Warba 1%
Utah <sup>1</sup> .....	White Rose and Bliss Triumph 90% ; Netted Gem 5% ; Irish Cobbler, Katahdin, Pontiac 5%
Vermont <sup>2</sup> .....	Katahdin 45% ; Green Mountain 30% ; Houma 20% ; others 5%
Virginia <sup>1</sup> .....	Irish Cobbler 60% ; Chippewa 10% ; Green Mountain 10% ; Katahdin 9% ; Sequoia 5% ; others 6%
Washington <sup>2</sup> .....	Russet Burbank 65% ; White Rose 35%
West Virginia .....	Early: Irish Cobbler 80% ; Chippewa 10% ; others 10%. Late: Katahdin 50% ; Sebago 30% ; Kennebec, Menominee, others 20%
Wisconsin <sup>2</sup> .....	Chippewa 25% ; Irish Cobbler 25% ; Katahdin 20% ; Russet Rural 8% ; Bliss Triumph 5% ; Sebago 5% ; Russet Burbank, Russet Sebago, Pontiac, White Rural, Red Warba 10% ; others 2%
Wyoming <sup>1</sup> .....	Bliss Triumph 80% ; Irish Cobbler 5% ; Russet Burbank 5% ; Red Warba, Pontiac, Teton, Kasota, White Rose, others 10%
Alaska .....	Arctic Seedling

<sup>1</sup> From 1950 Yearbook

<sup>2</sup> From 1951 Yearbook

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PRESQUE ISLE

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## DOMINION OF CANADA CERTIFIED SEED PRODUCTION

## DEPARTMENT OF AGRICULTURE

## SCIENCE SERVICE — DIVISION OF PLANT PROTECTION

Estimated Total Production by Province and Variety — In Bushels, 1951

Variety	P.E.I.	N.S.	N.B.	Que.	Ont.	Man.	Sask.	Alta.	B.C.	Total
Katahdin	354,000	49,200	3,209,000	14,650	300,000	4,850	....	....	2,200	3,933,900
Sebago	1,848,000	18,700	179,000	....	11,000	150	....	....	1,200	2,058,050
Green Mountain	440,000	21,700	443,000	300,000	6,000	2,000	....	....	11,000	1,223,700
Irish Cobbler	645,000	23,500	314,000	15,200	30,000	12,700	100	50	....	1,040,550
Bliss Triumph	12,000	48,150	468,000	....	....	3,600	800	600	....	533,150
Netted Gem	8,200	9,500	29,400	300	300	6,500	2,500	131,000	333,500	521,200
Pontiac	127,700	1,300	263,000	....	....	16,800	600	400	....	550
Chippewa	6,400	6,250	27,000	....	67,000	....	....	....	750	107,400
Canso	25,100	5,350	28,000	1,600	13,000	3,900	....	....	2,500	79,450
Warba*	7,500	3,150	4,300	250	3,000	17,350	1,200	5,000	24,000	65,750
White Rose	....	....	34,000	....	....	....	....	....	28,750	62,750
Rural Russett	....	....	32,700	....	300	....	....	....	....	33,000
Keswick	11,100	1,300	9,700	2,000	1,300	1,450	....	....	1,380	28,230
Early Epicure	300	....	....	....	....	....	....	....	10,800	11,100
Columbia Russett	....	....	200	....	....	4,600	1,200	....	4,050	10,050
Sequoia	8,900	....	....	....	50	....	....	....	....	8,950
Canus	....	....	200	....	3,000	3,200	1,000	1,500	50	8,950
Early Ohio	....	....	....	....	....	6,700	1,600	50	....	8,350
Kennebec	....	950	1,900	....	50	2,600	....	....	20	5,520
Early Rose	....	400	....	....	....	....	....	....	3,100	3,500
Rural New Yorker	....	....	....	....	....	....	....	....	....	....
(Dooley)	....	....	....	....	3,000	....	....	....	....	3,000
Mohawk	....	2,250	350	....	....	....	....	....	....	2,600
Garnet Chili	....	2,450	....	....	....	....	....	....	....	2,450
Pawnee	....	1,700	....	....	....	....	....	....	....	1,700
McIntyre	....	25	....	....	....	....	....	....	....	1,425
Great Scott	1,400	....	....	....	....	....	....	....	....	1,400
Burbank	....	300	....	....	....	....	....	....	1,400	1,400
Gold Coin	....	....	....	....	....	....	....	....	1,100	1,400
Carter's Early	....	....	....	....	....	....	....	....	1,200	1,200
Favorite	....	....	....	....	....	....	....	400	....	400
Other varieties	....	375	....	....	....	....	....	....	250	625
TOTAL	3,495,600	196,550	5,043,750	334,000	438,000	86,400	9,000	139,000	427,800	10,170,100

\*Red Warba is included in Warba figures.

Other varieties are:- Sir Walter Raleigh - 200 bu., Arran Victory - 200 bus., Up-to-Date - 150 bus., Wee McGregor - 50 bus., Clark's #3 - 25 bus.

OTTAWA, December 3, 1951.

**CANADA DEPARTMENT OF AGRICULTURE**

Science Service — Division of Plant Protection

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## TOTAL CANADIAN POTATO PRODUCTION — 1951

	Acreage (000)		Yield per Acre Bushels		Production Bushels (000)	
	1950	1951	1950	1951	1950	1951
Prince Edward Island .....	45.1	31.4	255	200	11,500	6,280
Nova Scotia .....	21.7	18.7	240	180	5,208	3,366
New Brunswick .....	59.9	45.3	286	245	17,131	11,098
Quebec .....	161.0	137.0	163	144	26,200	19,728
Ontario .....	113.0	80.0	192	176	21,696	14,080
Manitoba .....	28.1	22.1	142	142	3,990	3,138
Saskatchewan .....	31.9	27.8	103	122	3,300	3,406
Alberta .....	28.3	24.2	150	133	4,245	3,219
British Columbia .....	16.2	14.4	233	200	3,775	2,880
CANADA .....	505.2	400.9	192	168	97,045	67,195

ASSOCIATIONS IN CANADA ACTIVELY ENGAGED IN  
THE IMPROVEMENT OF THE POTATO INDUSTRY

The Northern Alberta Certified Seed Potato Grower's Association Ltd., Lacombe, Alberta. President, J. Prins, Lacombe; Secretary-Treasurer, M. C. Bradley, Lacombe; Selling Agency, W. Robinson, 201 Birks Bldg., Edmonton, Alta.

Peers Associated Certified Seed Potato Growers of Northern Alberta, McLeod Valley P.O., Alberta. Secretary-Treasurer, C. H. S. Bowness, McLeod Valley.

Southern Alberta Potato Improvement Committee. Chairman, J. W. Marritt, 207 Northern Bldg., Edmonton, Alberta; Secretary, W. Lobay, Field Crops Branch, Provincial Dept. of Agriculture, Edmonton.

B. C. Certified Seed Potato Growers' Association. Secretary-Manager, S. J. Gray, R. R. 6, Langley Prairie, B. C.

B. C. Coast Vegetable Marketing Board. Secretary-Manager, R. N. Mangles, 405 Railway St., Vancouver, B. C.

B. C. Interior Vegetable Marketing Board. Secretary-Manager, E. Poole, 1470 Water Street, Kelowna, B. C.

Cariboo Certified Seed Potato Association. Box 67, Quesnel, B. C. President, W. A. Johnston, Quesnel; Secretary, J. Rome, Quesnel.

Colebrook Potato Growers' Association. Secretary-Manager, John Lane, Surrey Centre, B. C.

Columbia Potato Growers Association. President, R. M. Grauer, 236 Airport Road, Sea Island, Vancouver; Vice-president, Duncan May, 1473 Cambie Road, R. R. No. 2, Vancouver; Secretary, C. H. Bradbury, 3676 West 38th Avenue, Vancouver.

Comox Valley Potato Growers' Association. Secretary-Manager, J. A. Bird, Courtenay, B. C.

Edgewater Seed Potato Growers' Association. Secretary-Manager, M. Rasmussen, Edgewater, B. C.

Georgia Potato Growers' Association. Secretary-Manager, J. H. Ellis, Ladner, B. C.

Grand Forks Co-operative Growers' Exchange. Secretary-Manager, Y. Sugimoto, Grand Forks, B. C.

Grand Forks Seed Potato Control Area Association. Secretary-Manager, J. F. Carmichael, Grand Forks, B. C.

North Cariboo Growers' Co-operative Association. Secretary-Manager, Norman Sinclair, Quesnel, B. C.

Northern Seed Potato Company Limited, 405 Railway Street, Vancouver 4, B. C. President, C. H. Bradbury, 3676 West 38th Avenue, Vancouver; Vice-President, Mrs. C. H. Bradbury, 3676 West 38th Avenue, Vancouver; Secretary, Miss A. McAleer, 2955 Fraser Street, Vancouver.

Pemberton Certified Seed Potato Growers' Association. Secretary-Manager, E. Cooper, Pemberton, B. C.

Pemberton Seed Potato Control Area Association. Secretary-Manager, John Decker, Pemberton, B. C.

Salmon River Valley Seed Potato Control Area Association. Secretary-Manager, R. C. Freeze, Armstrong, B. C.

Manitoba Seed Potato Growers Co-op Association, 153 Legislative Bldg., Winnipeg, Manitoba. President, W. S. Nebozenko, Portage La-Prairie; Secretary-Treasurer, Norman Binkley, Dugald.

New Brunswick Potato Marketing Board, Hartland, N. B.

Potato Growers Association of New Brunswick, Grand Falls, N. B. President, H. L. Mulherin; Secretary, H. W. Mulherin.

Kings County Potato Growers' Association, Canning R. R. 2, Kings County, Nova Scotia. President, J. W. Steele, R. R. 3 Canning; Vice-President, D. D. Sutton, Port Williams, R. R. 1; Secretary-Treasurer, H. L. Parker, R. R. 2, Canning.

Scotts Bay Seed Potato Cooperative Ltd., Scotts Bay, Kings County, Nova Scotia. President, J. W. Steele, Scotts Bay; Vice-President, E. Russell Jess, Scotts Bay; Secretary-Treasurer, C. O. Steele, Scotts Bay.

Crop Improvement Association, North Simcoe District, Secretary, Agricultural Representative, Barrie, Ont.

Crop Improvement Association, South Simcoe District, Secretary, Agricultural Representative, Alliston, Ont.

Crop Improvement Association, Muskoka-Parry Sound District, Secretary, Agricultural Representative, Huntsville, Ont.

Crop Improvement Association, Sudbury District, Secretary, Agricultural Representative, Sudbury, Ont.

Crop Improvement Association, Temiskaming District, Secretary, Agricultural Representative, New Liskeard, Ont.

Crop Improvement Association, Cochrane District, Secretary, Agricultural Representative, Cochrane, Ont.

Hanmer Co-operative, Hanmer, Ont.

North Simcoe Potato Growers' Co-operative, R. R. 4, Coldwater, Ont.

Ontario Crop Improvement Association (Potato Section), Ontario Department of Agriculture, Parliament Bldg., Toronto, Ont. Publishers of Potato Peelings, Secretary, Potato Section, R. E. Goodin, Parliament Bldg., Toronto.

Prince Edward Island Potato Growers' Association, P.O. Box 218, Charlottetown, P.E.I. Secretary-Manager, E. D. Reid, Charlottetown.

Prince Edward Island Potato Promotional Committee, Charlottetown, P.E.I. Secretary, S. C. Wright, Provincial Department of Agriculture, Charlottetown.

Provincial Potato Protection Committee, Department of Agriculture, Parliament Bldgs., Quebec, Publishers of Potato Protection Guide, President, George Gauthier; Secretary, Andre Doyle.

Saskatchewan Certified Potato Growers' Association, Extension Dept., University of Saskatchewan, Saskatoon, Sask.

## Are You Cutting Your Seed Potatoes Too Small?

Yields are often reduced by the use of seed pieces that are too small. An easy method of checking the size of the seed pieces that your crew is cutting is to count the number of seed pieces it takes to fill a five quart oil can such as you find at filling stations. It takes 53 pieces weighing 2 ounces; 60 pieces weighing  $1\frac{3}{4}$  ounces; 70 pieces weighing  $1\frac{1}{2}$  ounces or 105 pieces weighing 1 ounce to fill the can. For maximum yields the seed pieces of atahdin, Chipewewa, Sebago and Kennebec should weigh 2 ounces, while seed pieces of Green Mountains and Cobblers should weigh  $1\frac{1}{2}$  ounces. In other words, if your seed is so small that it takes over 70 pieces of Katahdins or 60 pieces for Cobblers to fill the can, you may be cutting your yield.

## FUTURE TRADING IN POTATOES ON THE NEW YORK MERCANTILE EXCHANGE

To the producer or dealer the intelligent use of the New York Potato Futures market is a distinct aid. It offers a means of protection against unexpected price fluctuations. There are many ways in which the New York Potato Futures market can be used to aid producers and shippers in their operations. The members of the Exchange offer their experience and service in helping to determine the manner in which the futures market can be applied to your business for your benefit.

For further information contact any member or the New York Mercantile Exchange, or the Business Manager.

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## PERIODICALS OF INTEREST TO THE POTATO INDUSTRY

**Agricultural Institute Review**, 338 Somerset St., West Ottawa, Ont., Canada. Published bi-monthly by the Agricultural Institute of Canada. Editor, Hilda Gray. Subscription price \$2.00 per year.

**American Potato Journal**, New Brunswick, N. J. Published monthly by the Potato Association of America. Editor, Dr. William H. Martin. Subscription price \$4.00 per year.

**The Agronomy Journal**, 2702 Monroe St., Madison 5, Wisc. Published monthly by the American Society of Agronomy. Editor, Maurice R. Haug. Subscription price \$11.00 in U. S. and Canada, \$12.00 elsewhere.

**The Badger Common Tator**, Fidelity Bank Bldg., Antigo, Wis. Published monthly by the Potato Growers of Wisconsin, Inc. Price—free.

**Better Farming Methods**, Mount Morris, Illinois. Published monthly. Editor, Herbert L. Schaller. Subscription price \$2.00 per year.

**Chemurgic Digest**, Room 3108, 350 Fifth Ave., New York 1, N. Y. Published monthly. Editor, Douglas Dies. Subscription price of \$5.00 is included with \$10.50 annual membership.

**Colorado Potato Grower**, 601 Cooper Bldg., Denver 2, Colo. Published monthly by the Colorado Potato Growers Exchange. Editor, L. E. Waters. Subscription price \$1.00 per year.

**The Common-Tater**, Vancouver, B. C., Canada. Published quarterly by the British Columbia Coast Vegetable Marketing Board. Subscription price—free on request.

**Country Life**, Box 700, Vernon, British Columbia, Canada. Published monthly. Official organ of Federation Movements. Editor, C. A. Hayden. Subscription price \$1.00 per year Canada, \$2.00 U. S.

**Fruit & Vegetable Review**, Orange Savings Bank Bldg., Orange, Calif. Published monthly. Editor, Briant Sando. Subscription price \$3.00 per year.

**The Guide Post**, 1100 North 7th St., Allentown, Penna. Published monthly by the Pennsylvania Cooperative Potato Growers, Inc. Editor, Russell L. Ruble. Subscription price \$1.00 per year.

**Hints to Potato Growers**, New Jersey Agri. Experiment Station, New Brunswick, N. J. Published monthly by the New Jersey State Potato Association. Editor, John C. Campbell. Subscription price \$3.00 per year.

**Kern County Potato News**, P.O. Box 83, Bakersfield, Calif., official organ of Kern County Potato Growers Association. Published semi-monthly. Editor, Don F. Maupin. Subscription price—to members and growers only.

**Implement Record**, 609 Mission St., San Francisco 5, Calif. Published monthly with extra directory issue in March. Editor Osgood Murdock. Subscription price \$3.00 per year - 2 years \$5.00.

**M. P. G. News**, Presque Island, Maine. Published monthly by the Maine Potato Growers, Inc. Editor, Eugene K. Rowe. Subscription price—free on request.

**The Mail Bag**, Box 277, Scotts Bluff, Neb. Published monthly by Potato Development Division, State of Nebraska. Editor Earl P. Barrios. Subscription price—free on request.

**Market Growers Journal**, 11 South Forge St., Akron 4, Ohio. Published monthly. Editor, Edward S. Babcox, Jr. Subscription price \$2.00 one year, \$3.00, 2 years, \$5.00, 5 years.

**Michigan Potato Growers Exchange**, 116 West Harris St., Cadillac, Mich. Published monthly by the Michigan Potato Growers Exchange, Inc. Editor, F. P. Hibat. Subscription price 50c per year.

**The Organic Farmer**, 6th and Minor Sts., Emmaus, Penna. Published monthly. Editor, J. I. Rodale. Subscription price, \$3.00 per year.

**The Packer**, 201 Delaware St., Kansas City 6, Mo. Published weekly. Editor R. V. Whiting. Subscription price \$5.00 per year.

**La Pomme de Terre Francaise**. Published monthly by the Federation Nationale des Producteurs de Plantes de Pommes de terre. Editor, Henri Demesmay. Subscription price 250 francs per year.

**The Potato Chipper**, 1360 Hanna Bldg., Cleveland 15, Ohio. Published monthly by the National Potato Chip Institute. Managing Editor, Harvey F. Noss. Subscription price \$5.00 per year.

**The Potato Journal**, c/o R. G. Robinson Ltd., Box 4, Papanui, Christchurch N.W. 2, New Zealand. Published quarterly. Editor, R. G. Robinson. Subscription price—free.

**Potato News**. Published by Empire State Potato Club, Inc., Georgetown, N. Y. Editor, H. J. Evans. Subscription price—free.

**Pre Pack Age**, 1250 East Main St., Stamford, Conn. Published monthly, editor Robert A. Cooper. Subscription price \$3.50 per year - 2 years \$5.00.

**The Produce News**, 6 Harrison St., New York City. Published weekly. Editor, A. E. Haglund. Subscription price \$3.00 per year.

**Scientific Agriculture**, Confederation Bldg., Ottawa, Ont., Canada. Published monthly by the Agricultural Institute of Canada. Editor, C. Gordon O'Brien. Subscription price \$3.00 per year.

**Seed Journal**, College Station, Fargo, North Dakota. Published quarterly. Subscription price—free on request.

**Seeder**, P.O. Box 2601, Boise, Idaho. Published quarterly by the Idaho Crop Improvement Ass'n. Editor, C. G. d'Easum. Subscription price—free.

**Spud Notes**, Colorado A. and M. College, Fort Collins, Colorado. Published monthly by the Extension Service, Colorado A. and M. College. Editor, Cecil W. Frutchey. Subscription price—free.

**"Spuditems,"** Bank Bldg., Monte Vista, Colo. Published weekly by the San Luis Valley Potato Board of Control. Editor, Wilbur G. Erickson. Subscription price—free.

**The Spudlight**, 777 - 14th St., N.W., Washington 5, D. C. Published weekly by the Potato Division, United Fresh Fruit & Vegetable Association. Editor, Kris P. Bemis. Subscription price \$25.00 per year.

**Tabb Potato Service**, 9 South Kedzie Ave., Chicago, Ill. Published weekly. Editor, L. J. Crescio. Subscription price \$50.00 per year.

**The Taterstater**, Presque Isle, Maine. Published quarterly by the Aroostook Potato Growers, Inc. Editor, Donald C. Umphrey. Subscription price—free.

**The Valley Potato Grower**, Box 301, East Grand Forks, Minn. Published semi-monthly by the Red River Valley Potato Growers Association. Editor, W. M. Case. Subscription price—free.

**Vee-Gee Messenger**, Preston, Maryland. Published quarterly. Editor, Max Chambers. Subscription price 20¢ per year, \$1.00, six years.

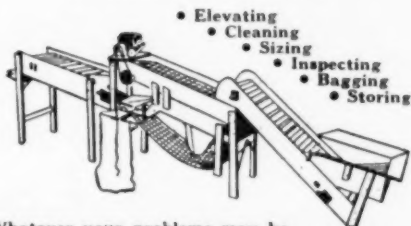
**Western Grower and Shipper**, 606 South Hill St., Los Angeles 14, Calif. Published monthly by the Western Growers Association. Editor, Frank Howatt. Subscription price \$2.50 per year.

**What's New in Crops & Soils**, 2702 Monroe Street, Madison 5, Wis. Published nine times a year by The American Society of Agronomy. Editor, L. G. Monthey. Subscription price \$3.00 per year. (Special group rates.)

**World Crops**, 9 Eden St., London, N.W.1., England. Published monthly. Subscription price, \$6.00 one year, \$12.00, 3 years.



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## MERCHANTABLE POTATO STOCKS AS OF JANUARY 1, 1952 WITH COMPARISONS

### Merchantable Potato Stocks Much Smaller Than Usual on January 1, 1952

Stocks of merchantable potatoes held on January 1, 1952 by growers and local dealers in or near the areas where produced were placed at 97,060,000 bushels by the Bureau of Agricultural Economics today. These holdings are 40 percent smaller than the record-large stocks of 161,340,000 bushels on hand a year earlier. Current stocks are about 5¼ million bushels smaller than the holdings of a year ago after excluding Government purchases after January 1, 1951 of 59 million bushels. In contrast to the surpluses of recent years, supplies are not excessive in any part of the country.

Current low stocks reflect a sharp decrease in production last year and heavy marketings from the time of harvest through December. Growers reduced acreage sharply in 1951 to get production in line with market requirements and the crop was further reduced in some States by less favorable growing weather than had been experienced in recent years. Production in 1951 for the 37 late and intermediate States was placed at 277,396,000 bushels, compared with 367,863,000 bushels a year earlier. Sales for all purposes from the 1951 production are expected to be 227,379,000 bushels or 82 percent of the crop.

### POTATOES (IRISH): MERCHANTABLE STOCKS IN HANDS OF GROWERS AND LOCAL DEALERS ON JANUARY 1 IN THE 37 LATE AND INTERMEDIATE STATES<sup>1</sup>

GROUP AND STATE	10-year average Jan. 1, 1941-50 <sup>2</sup>	January 1, 1951 <sup>3</sup>	January 1, 1952 <sup>3</sup>
	Crops of 1940-49	Crop of 1950	Crop of 1951
<b>SURPLUS LATE STATES:</b>			
		Thousand bushels	
Maine	36,176	43,900	31,350
New York	8,697	10,500	7,060
Pennsylvania	6,499	9,720	5,640
Michigan	6,353	6,860	3,960
Wisconsin	2,795	4,240	2,380
Minnesota	7,295	8,940	5,000
North Dakota	8,670	10,580	6,970
South Dakota	652	1,030	600
Nebraska	4,299	5,630	2,210
Montana	858	1,410	1,070
Idaho	16,634	26,420	14,040
Wyoming	1,116	940	520
Colorado	6,292	7,410	4,250
Utah	1,034	1,630	730
Nevada	273	250	170
Washington	2,147	2,810	1,200
Oregon	3,734	6,050	3,300
California (Late)	2,726	5,000	2,150
18 SURPLUS LATE	116,251	153,320	92,600
<b>OTHER LATE STATES:</b>			
New Hampshire	399	590	320
Vermont	473	450	230
Massachusetts	632	730	400
Rhode Island	330	450	250
Connecticut	1,532	1,830	1,310
West Virginia	201	100	80
Ohio	1,314	1,900	830
Indiana	881	1,080	600
Illinois	101	20	15
Iowa	343	140	60
New Mexico	43	20	15
11 OTHER LATE	6,250	7,310	4,110
29 LATE STATES	122,501	160,630	96,710
<b>INTERMEDIATE STATES:</b>			
New Jersey	268	300	150
Delaware	43	30	15
Maryland	147	100	60
Virginia	132	150	50
Kentucky	119	60	50
Missouri	84	40	15
Kansas	60	25	5
Arizona	51	5	5
8 INTERMEDIATE	903	710	350
37 LATE AND INTERMEDIATE STATES	123,404	161,340	97,060

<sup>1</sup> Merchantable stocks consist of potatoes held by growers, local dealers and buyers on farms or near areas of production for sale or delivery after December 31. They include potatoes held for sale or delivery to starch factories and other processors.

<sup>2</sup> Note that the 10-year average figures ("Group" and "All States") are the averages of the yearly totals, not the sum of group or State averages.

<sup>3</sup> The 10-year averages are NOT revised.

<sup>4</sup> Revised on the basis of the 1950 Census and check data which became available at the end of the crop season.

<sup>5</sup> Preliminary.

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## 1951 CERTIFIED SEED POTATO PRODUCTION 28 PERCENT SMALLER THAN RECORD 1950 CROP

Production of certified seed potatoes in 1951 is estimated at 36,650,982 bushels. This is the smallest crop of certified seed stock in 6 years, and compares with the record of 51,071,441 bushels in 1950, and the 1940-49 average of 33,488,401 bushels. The reduction is attributed mostly to the sharply smaller acreage harvested in 1951, as the yield per acre of 332 bushels is only slightly smaller than the 1950 yield and is the third largest on record.

Reports from certifying officials in 31 states to the Bureau of Agricultural Economics show that 110,245 acres of certified seed were harvested in 1951. This acreage represents a reduction of 25 percent, or 35,937 acres from the 146,182 acres harvested in 1950, and compares with the 10-year average of 134,821 acres.

Certifying officials reported on 56 varieties of seed potatoes in 1951. Reductions from the previous year were shown for 38 of these, with Madison, Menominee, Calrose, Chisago, Earliest of All, Gold Coin, and Red Bliss dropping out. Increases occurred in 17 varieties with Kennebec, a blight-resistant variety adapted for northern areas, showing the most significant gain among the established varieties, and among the newer varieties, Cherokee, De Soto, Lasoda, and White Cloud showing sharp increases.

**TABLE 1**  
**CERTIFIED SEED POTATO ACREAGE AND PRODUCTION BY STATES**  
**AVERAGE 1940-49; ANNUAL 1950 AND 1951**

State	Acreage Harvested			Production		
	Average 1940-49	1950	1951	Average 1940-49	1950	1951
	Acres			Bushels		
Arizona	11	0	0	261	0	0
California	4,208	7,693	4,417	1,697,053	3,675,590	2,188,290
Colorado	3,897	3,968	3,463	1,176,434	1,481,002	1,264,005
Georgia	37	0	0	2,470	0	0
Idaho	5,903	9,737	7,077	884,745	2,523,245	1,497,666
Iowa	1601	76	72	33,7161	17,866	14,400
Kentucky	28	31	18	3,719	2,270	3,680
Louisiana	333	0	0	9,133	0	0
Maine	39,248	41,526	33,967	14,895,266	22,059,803	16,453,375
Maryland	178	109	82	29,994	29,960	19,640
Michigan	2,599	2,425	1,846	427,228	481,021	280,990
Minnesota	19,589	26,348	18,642	3,572,421	5,323,458	3,911,370
Montana	1,562	2,385	1,933	369,994	785,995	492,927
Nebraska	7,683	5,824	4,655	837,375	1,273,622	878,381
New Hampshire	107	56	26	36,087	28,300	11,729
New Jersey	335	254	147	53,710	55,794	26,592
New Mexico	9	0	0	2,378	0	0
New York	3,293	3,360	2,536	1,140,604	1,599,290	1,012,770
North Carolina	154	312	232	28,749	62,400	71,171
North Dakota	30,090	26,270	17,503	4,776,342	6,430,350	4,286,970
Ohio	1	0	0	280	0	0
Oregon	2,706	3,352	2,217	752,118	1,403,770	971,450
Pennsylvania	1,024	1,168	843	313,418	470,995	246,789
South Dakota	4,129	2,953	2,272	689,748	594,895	456,480
Tennessee	301	330	286	51,230	102,645	83,786
Utah	535	708	706	147,289	320,930	236,321
Vermont	413	498	447	144,864	321,582	233,881
Virginia	3	4	4	212	130	510
Washington	1,350	1,438	1,373	322,400	275,415	299,818
Wisconsin	3,034	4,798	4,610	792,569	1,651,750	1,569,950
Wyoming	2,023	559	724	320,427	99,363	138,041
<b>TOTAL</b>	<b>134,821</b>	<b>146,182</b>	<b>110,098</b>	<b>33,488,401</b>	<b>51,071,441</b>	<b>36,650,982</b>

1 Short-time average.  
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Bureau of Agricultural Economics, Washington, D. C.

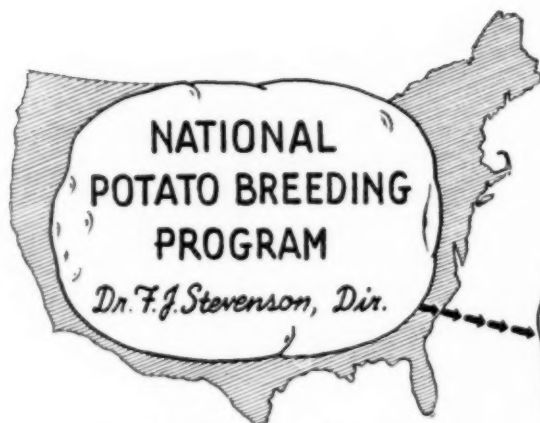
TABLE 2  
PRODUCTION OF CERTIFIED SEED POTATOES BY VARIETIES

State	Average 1945-49	1948	1949	1950	1951
	Bushels	Bushels	Bushels	Bushels	Bushels
<b>C O B B L E R</b>					
Colorado	166,303	135,530	113,800	93,136	32,899
Iowa	14,791	0	15,455	12,916	8,000
Kentucky	1,672	673	2,440	63	420
Maine	3,193,376	2,510,128	1,473,654	1,827,182	1,982,369
Maryland	19,135	6,075	11,200	10,650	11,550
Michigan	9,114	2,870	11,522	14,834	5,565
Minnesota	2,817,995	2,832,132	2,696,870	2,977,024	2,045,214
Montana	620	600	1,250	1,400	0
Nebraska	1,201	2,078	81	176	1,225
New Hampshire	168	0	0	0	0
New Jersey	2,524	495	804	6,162	1,650
New York	50,806	65,600	59,312	60,080	50,310
North Dakota	2,129,668	1,500,000	850,000	1,200,000	721,500
Oregon	490	1,000	1,325	1,000	800
Pennsylvania	1,483	0	335	3,028	50
South Dakota	294,137	275,310	48,800	71,290	65,250
Tennessee	40	0	0	0	0
Utah	546	667	0	0	0
Vermont	15	0	0	3,025	7,000
Washington	1,326	3,333	625	235	666
Wisconsin	176,400	170,000	150,000	136,000	50,000
Wyoming	13,325	7,507	9,267	50	65
<b>TOTAL</b>	<b>8,805,135</b>	<b>7,513,998</b>	<b>5,446,740</b>	<b>6,418,251</b>	<b>4,984,533</b>
<b>T R I U M P H</b>					
California	2,739	1,500	3,663	0	0
Colorado	366,630	452,045	452,150	365,219	106,680
Idaho	9,268	3,150	715	9,000	0
Kentucky	14	42	0	0	0
Maine	49,475	42,735	32,957	55,481	65,548
Maryland	20	25	0	0	0
Minnesota	665,274	790,320	981,414	777,219	706,966
Montana	90,986	152,824	91,861	82,870	29,362
Nebraska	872,525	720,298	697,033	1,088,283	648,361
New Jersey	0	0	0	50	0
New York	1,867	1,312	3,124	5,140	5,780
North Dakota	2,789,549	3,100,000	2,600,000	2,700,000	1,908,950
Oregon	2,872	1,311	250	1,750	2,100
South Dakota	526,864	702,260	238,140	326,800	237,690
Tennessee	49,250	44,400	72,850	67,000	60,000
Utah	8,567	1,508	857	3,700	3,293
Washington	1,818	875	500	117	500
Wisconsin	223,000	300,000	325,000	151,000	140,000
Wyoming	263,552	150,510	127,236	78,820	94,436
<b>TOTAL</b>	<b>5,924,270</b>	<b>6,465,115</b>	<b>5,627,750</b>	<b>5,712,449</b>	<b>4,009,666</b>
<b>R U S S E T R U R A L</b>					
Colorado	11,871	6,790	13,000	27,652	7,956
Iowa	220	0	0	0	0
Maine	61,438	87,072	39,203	69,069	131,801
Maryland	140	0	0	0	0
Michigan	285,076	200,017	182,982	179,820	138,871
Nebraska	4,826	2,525	0	1,523	0
New York	27,356	39,245	30,520	76,887	29,640
Pennsylvania	50,084	40,332	10,850	22,866	22,866
South Dakota	44	0	0	0	0
Wisconsin	119,340	113,700	100,000	155,000	160,000
Wyoming	3,787	0	0	0	0
<b>TOTAL</b>	<b>564,182</b>	<b>489,681</b>	<b>376,555</b>	<b>509,951</b>	<b>491,164</b>
<b>R U R A L N E W Y O R K E R (ALSO CALLED WHITE RURAL OR SMOOTH RURAL)</b>					
Colorado	15,512	10,850	23,555	23,263	9,921
Maryland	99	200	150	100	44
Michigan	5,349	5,141	8,854	14,671	7,600
Minnesota	40	0	0	0	0
New York	12,838	17,020	13,820	26,446	19,760
Pennsylvania	847	1,064	0	25,938	7,803
Wisconsin	6,950	7,750	14,000	18,000	5,500
<b>TOTAL</b>	<b>41,635</b>	<b>42,025</b>	<b>60,379</b>	<b>108,418</b>	<b>50,628</b>

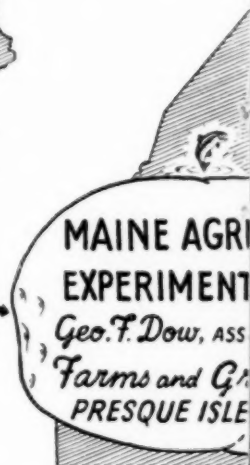
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# BUY MAINE CE

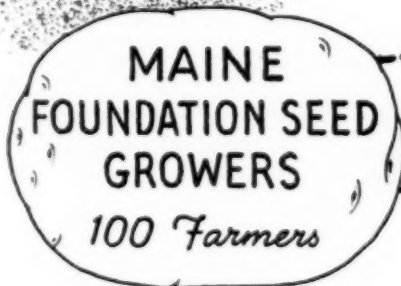
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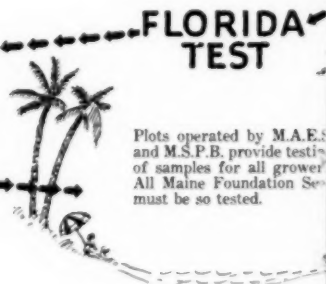
Selected parents crossed at Beltsville, Md., station of U.S.D.A. Seedlings grown, studied, selected and increased at Presque Isle, the program's largest substation, Robert V. Akeley, director.



Seedling varieties tested for commercial desirability and new varieties compared with five locations in Maine. Those increase are tuber-indexed.\*



Seed from Board farm is further increased under supervision of State specialists.



Plots operated by M.A.E.S. and M.S.P.B. provide testing of samples for all growers. All Maine Foundation Seed must be so tested.

\* Selection through the test planting of a single eye from each potato.

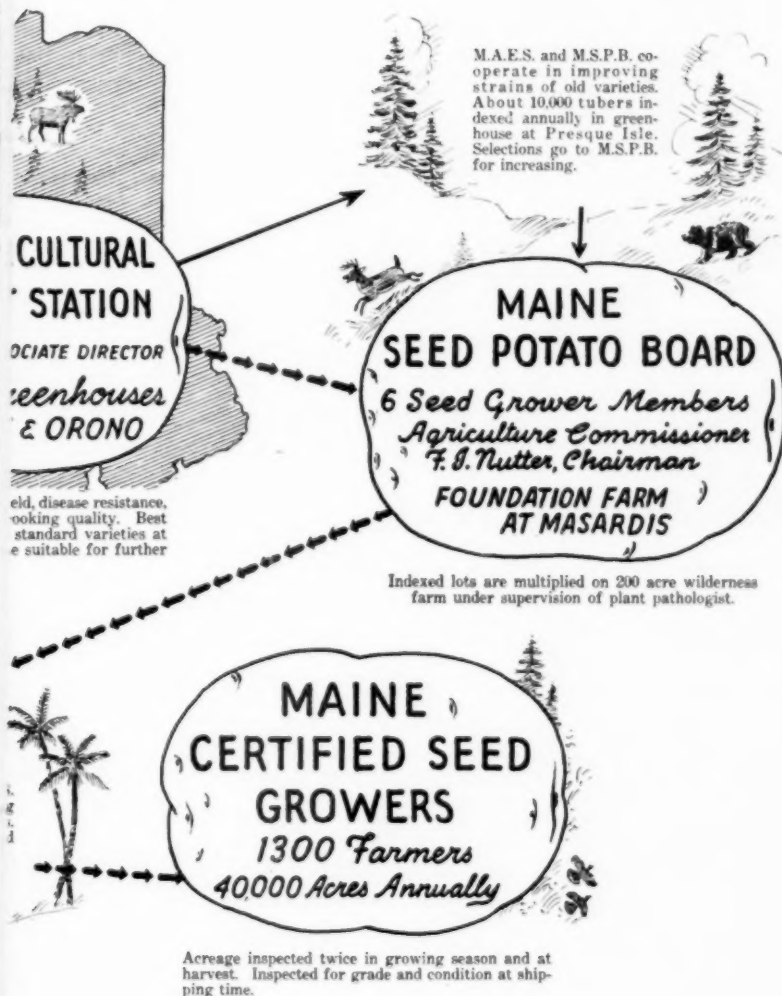
**FREE MATERIAL: 1. List of Growers**

**2. Descriptive**

For Above Material  
Department of Agriculture

# CERTIFIED SEED

Complete Program



1. Booklet

3. 16mm Sound Color Movie 20 min.

Write, E. L. Newdick  
Director, Augusta, Maine

TABLE 2 (Continued)  
PRODUCTION OF CERTIFIED SEED POTATOES

State	Average 1945-49	1948	1949	1950	1951
	Bushels	Bushels	Bushels	Bushels	Bushels
<b>K A T A H D I N</b>					
Colorado	50,712	57,260	44,610	86,510	54,596
Idaho	100	0	0	0	0
Iowa	0	0	0	960	0
Kentucky	130	0	0	0	0
Maine	9,514,037	11,974,306	14,245,924	14,819,479	9,846,793
Maryland	479	1,075	975	0	65
Michigan	34,259	52,910	81,314	81,558	30,701
Minnesota	36,020	31,950	29,904	42,187	17,842
Nebraska	4,034	3,503	122	0	1,025
New Hampshire	3,945	5,170	2,250	4,000	1,350
New Jersey	22,184	25,883	19,178	37,260	17,212
New York	748,842	886,965	990,045	859,172	478,800
North Carolina	85	125	300	0	0
North Dakota	4,330	0	2,000	14,000	82,500
Oregon	1,965	4,000	3,200	2,830	1,200
Pennsylvania	149,696	150,409	125,023	216,771	138,400
South Dakota	40	0	0	0	0
Tennessee	230	800	350	18,750	750
Utah	267	0	0	0	0
Vermont	75,684	68,875	141,680	128,220	81,675
Virginia	0	0	0	40	0
Washington	2,500	2,700	1,600	0	200
Wisconsin	116,400	138,000	170,000	150,000	100,000
<b>TOTAL</b>	<b>10,765,939</b>	<b>13,403,931</b>	<b>15,858,475</b>	<b>16,461,737</b>	<b>10,853,109</b>

<b>C H I P P E W A</b>					
Colorado	466	0	0	0	0
Idaho	3,336	500	700	133	0
Iowa	560	0	0	0	0
Kentucky	0	0	0	0	0
Maine	2,339,696	2,777,681	4,525,865	2,139,712	538,415
Maryland	12	30	0	0	0
Michigan	29,205	18,659	18,983	34,497	12,642
Minnesota	56,492	35,884	69,273	24,187	8,906
New Jersey	5,664	6,260	6,750	9,870	4,246
New York	123,015	131,100	93,094	71,707	75,402
North Dakota	21,522	7,000	300	6,600	0
Oregon	623	666	2,200	1,500	1,200
Pennsylvania	295	1,475	0	10,300	320
South Dakota	2,620	0	0	0	0
Tennessee	320	0	0	0	0
Vermont	0	0	0	39,062	0
Wisconsin	373,000	470,000	470,000	421,000	250,000
<b>TOTAL</b>	<b>2,956,826</b>	<b>3,449,255</b>	<b>5,187,165</b>	<b>2,758,568</b>	<b>891,131</b>

<b>W H I T E   R O S E</b>					
California	2,170,503	2,637,750	2,831,760	2,763,840	1,618,000
Colorado	21,536	27,100	15,290	8,386	3,576
Idaho	18,662	13,000	28,305	4,550	10,500
Minnesota	138,980	158,745	84,170	45,700	29,103
Montana	67,341	74,375	62,322	86,660	61,500
Nebraska	2,674	2,025	4,105	15,720	7,188
New Mexico	1,440	0	3,400	0	0
North Dakota	192,619	170,000	160,000	180,000	75,500
Oregon	403,435	537,958	225,000	389,950	352,250
South Dakota	1,770	6,750	0	0	0
Utah	163,449	182,576	170,833	247,820	128,220
Washington	231,928	170,000	134,660	152,000	131,169
Wisconsin	835	900	1,200	2,450	4,800
Wyoming	4,482	10,431	7,841	2,746	11,111
<b>TOTAL</b>	<b>3,419,654</b>	<b>3,991,610</b>	<b>3,728,886</b>	<b>3,899,822</b>	<b>2,432,917</b>

(Continued on Page 44)



## FOR DEPENDABLE CONTROL OF ALL BLIGHT

### Here's Why

#### 1. BETTER YIELDS

of more No. 1 potatoes

#### 2. SIMPLER—CHEAPER

No "specialized" products needed  
—easy to prepare

#### 3. BETTER CROP PROTECTION

Backed by 50 years experience

Potato growers use more Triangle Brand Copper Sulphate *than any other product* for dependable protection against *all* blight—early and late. And—besides protection at low cost, you actually get *higher yields* of No. 1 potatoes! Don't take chances . . . get practically guaranteed control—use Triangle Brand!



### **FREE!** VALUABLE BOOKLETS

"More No. 1 Potatoes"

"Better Bordeaux Mixtures"

"Basic Copper Sulphate"

**PHELPS DODGE REFINING CORPORATION**

*Electrolytic Refiners of Copper*

40 Wall Street, New York 5, N. Y.

TABLE 2 (Continued)  
PRODUCTION OF CERTIFIED SEED POTATOES

State	Average 1945-49	1948	1949	1950	1951
	Bushels	Bushels	Bushels	Bushels	Bushels
<b>S E B A G O</b>					
California	2,000	10,000	0	0	0
Colorado	992	0	0	0	0
Iowa	2,392	0	4,258	0	0
Kentucky	450	633	1,490	765	0
Maine	838,437	991,700	485,906	222,995	1,000
Maryland	1,678	975	7,000	13,050	168,622
Michigan	35,034	35,733	43,669	108,378	82
Minnesota	46,452	70,650	38,911	49,446	61,405
Montana	647	0	0	0	26,676
Nebraska	1,657	5,883	0	0	0
New Hampshire	602	1,050	0	0	391
New Jersey	429	135	0	0	0
New York	172,192	197,600	133,263	208,625	0
North Dakota	9,042	2,400	0	0	67,470
Oregon	109	333	0	0	0
Pennsylvania	29,214	23,587	25,980	6,753	0
South Dakota	10,060	0	0	2,150	16,532
Vermont	110	0	0	0	0
Virginia	60	0	0	0	0
Washington	5,830	6,666	2,800	1,333	0
Wisconsin	154,600	170,000	193,000	196,000	1,199
<b>TOTAL</b>	<b>1,311,987</b>	<b>1,517,345</b>	<b>936,487</b>	<b>810,795</b>	<b>576,377</b>
<b>GREEN MOUNTAIN</b>					
Maine	2,892,336	3,039,919	2,202,673	1,954,316	1,704,780
Maryland	91	0	375	0	0
Michigan	11,583	8,000	12,125	10,003	2,450
Minnesota	6,706	2,222	6,337	10,429	12,824
New Hampshire	23,839	32,087	13,500	20,000	9,000
New Jersey	292	410	0	0	0
New York	179,797	135,000	77,045	82,400	42,120
Pennsylvania	1,400	0	0	13,125	0
South Dakota	35	0	0	0	0
Tennessee	190	250	0	0	0
Vermont	70,629	108,833	122,705	111,390	82,556
Wisconsin	880	0	2,400	4,500	1,250
<b>TOTAL</b>	<b>3,187,778</b>	<b>3,326,721</b>	<b>2,437,160</b>	<b>2,206,163</b>	<b>1,854,980</b>
<b>EARLY OHIO</b>					
Iowa	596	0	780	1,300	800
Montana	15	75	0	0	0
Minnesota	116,037	153,564	76,630	69,176	116,436
North Dakota	118,490	120,000	34,000	35,000	76,200
Oregon	30	0	150	430	0
South Dakota	5,280	10,750	4,960	9,660	6,250
Wisconsin	0	0	0	0	2,000
<b>TOTAL</b>	<b>240,448</b>	<b>284,389</b>	<b>116,520</b>	<b>115,566</b>	<b>201,686</b>
<b>BURBANK</b>					
California	10,740	8,000	500	0	0
Minnesota	340	0	0	0	0
Oregon	30,790	34,000	36,500	27,780	24,600
Utah	2,082	0	3,166	0	0
Washington	633	5,776	200	300	0
<b>TOTAL</b>	<b>445,850</b>	<b>47,776</b>	<b>40,336</b>	<b>28,080</b>	<b>24,600</b>
<b>RUSSET BURBANK (NETTED GEM)</b>					
California	422,480	516,400	275,250	871,150	490,490
Colorado	25,116	20,070	33,810	112,703	147,329
Idaho	1,289,001	1,391,000	1,441,280	2,509,562	1,487,166
Iowa	367	0	1,836	0	0
Michigan	5,232	9,025	10,087	4,752	2,837
Minnesota	123,461	249,690	249,404	166,372	156,448
Montana	313,779	370,675	375,835	601,065	393,190
New Jersey	0	0	0	0	125
North Dakota	11,904	8,000	39,000	38,000	24,400
Oregon	512,383	697,500	525,000	964,160	582,850
Pennsylvania	0	0	0	18,155	0
South Dakota	1,710	7,350	0	0	825
Utah	62,517	91,765	62,538	69,410	104,808
Washington	71,368	64,860	40,000	118,250	153,846
Wisconsin	29,080	32,000	105,000	115,000	170,000
Wyoming	2,448	7,827	1,687	6,470	7,952
<b>Total</b>	<b>2,870,846</b>	<b>3,466,162</b>	<b>3,160,727</b>	<b>5,595,049</b>	<b>3,722,266</b>

TABLE 2 (Continued)  
PRODUCTION OF CERTIFIED SEED POTATOES

State	Average 1945-49	1948	1949	1950	1951
	Bushels	Bushels	Bushels	Bushels	Bushels
<b>H O U M A</b>					
Maine .....	51,961	53,417	15,964	6,430	14,715
Maryland .....	5	0	0	0	0
New Hampshire .....	5,502	12,293	0	2,800	0
New York .....	13,447	11,180	3,375	23,770	5,600
Pennsylvania .....	1,366	0	0	0	0
Vermont .....	17,516	17,500	41,950	15,675	19,250
<b>TOTAL</b> .....	<b>89,797</b>	<b>94,390</b>	<b>61,289</b>	<b>48,675</b>	<b>39,565</b>

<b>K E N N E B E C</b>					
California .....	0	0	0	0	250
Colorado .....	0	0	0	0	8,415
Kentucky .....	0	0	0	0	105
Maine .....	4,034	0	20,168	448,372	1,502,998
Maryland .....	210	200	850	450	4,156
Michigan .....	0	0	0	0	2,740
Minnesota .....	0	0	0	15,448	74,840
Nebraska .....	0	0	0	0	166
New Jersey .....	0	0	0	0	2,713
New York .....	138	0	692	44,242	99,450
North Carolina .....	0	0	0	200	9,543
North Dakota .....	600	0	3,000	24,000	89,375
Oregon .....	0	0	0	660	2,550
Pennsylvania .....	0	0	0	3,649	28,423
South Dakota .....	0	0	0	20	100
Tennessee .....	0	0	0	955	4,878
Vermont .....	0	0	0	560	16,500
Virginia .....	0	0	0	90	260
Washington .....	0	0	0	0	999
Wisconsin .....	0	0	0	0	20,000
<b>TOTAL</b> .....	<b>4,982</b>	<b>200</b>	<b>24,710</b>	<b>538,646</b>	<b>1,868,461</b>

<b>O N T A R I O</b>					
Maine .....	7,987	1,660	38,274	196,243	300,248
Maryland .....	87	0	435	150	220
Michigan .....	0	0	0	9,150	1,980
Minnesota .....	0	0	0	0	625
Nebraska .....	0	0	0	3,137	773
New Hampshire .....	0	0	0	1,500	1,379
New York .....	48,332	67,320	139,040	62,010	75,950
North Dakota .....	0	0	0	20,000	0
Pennsylvania .....	962	1,400	3,411	2,071	0
Vermont .....	164	320	500	0	0
Wisconsin .....	15,540	7,700	70,000	100,000	65,000
<b>TOTAL</b> .....	<b>73,072</b>	<b>78,400</b>	<b>251,660</b>	<b>394,261</b>	<b>446,175</b>

<b>E S S E X</b>					
Kentucky .....	0	0	0	28	168
Maine .....	663	0	3,316	55,237	0
Maryland .....	50	0	250	350	0
Michigan .....	400	0	2,000	0	0
Minnesota .....	0	0	0	5,628	2,025
New Jersey .....	0	0	0	0	516
New York .....	36,729	28,980	151,065	48,595	27,880
North Carolina .....	105	25	500	27,800	27,785
North Dakota .....	2,400	0	12,000	80,000	3,850
Pennsylvania .....	4,675	2,612	20,762	14,077	525
Tennessee .....	0	0	0	2,080	9,275
Virginia .....	0	0	0	0	250
<b>TOTAL</b> .....	<b>45,022</b>	<b>31,617</b>	<b>189,893</b>	<b>233,795</b>	<b>72,274</b>

(Continued on Page 46)

TABLE 2 (Continued)  
PRODUCTION OF CERTIFIED SEED POTATOES

State	Average 1945-49	1948	1949	1950	1951
	Bushels	Bushels	Bushels	Bushels	Bushels
<b>SE QU O I A</b>					
Kentucky	1,680	1,475	2,890	1,120	1,220
Maine	34,615	40,150	70,723	62,208	44,151
Maryland	1,367	350	40	50	25
Michigan	9,302	8,750	21,018	9,869	5,025
Minnesota	9,932	0	80	87	0
New Jersey	1,690	110	1,226	562	130
New York	14,437	9,660	20,625	4,770	0
North Carolina	36,928	73,250	65,652	34,400	33,843
North Dakota	295	0	0	0	60
Pennsylvania	1,976	5,678	0	0	0
Tennessee	12,330	24,700	14,500	13,860	8,857
Vermont	367	500	0	0	0
Virginia	300	0	0	0	0
Wisconsin	21,680	13,000	37,000	3,850	0
<b>TOTAL</b>	<b>146,899</b>	<b>177,623</b>	<b>233,754</b>	<b>130,776</b>	<b>93,311</b>
<b>P O N T I A C</b>					
California	14,947	11,600	6,600	30,400	0
Colorado	21,570	27,340	27,025	25,328	98,467
Idaho	360	0	0	0	0
Iowa	200	0	0	0	0
Maine	16,749	19,010	11,417	15,456	45,630
Maryland	1,199	260	100	3,100	1,531
Michigan	17,799	2,380	15,645	9,069	8,809
Minnesota	142,361	92,287	509,171	521,692	131,671
Montana	4,405	3,500	4,712	7,600	6,150
Nebraska	1,436	0	7,181	1,615	0
New Hampshire	200	600	400	0	0
New Jersey	20	0	0	0	0
New Mexico	2,960	0	2,800	0	0
New York	14,250	3,690	22,890	12,190	32,900
North Carolina	25	125	0	0	0
North Dakota	315,917	600,000	550,000	400,000	85,800
Oregon	124	0	500	1,330	2,650
Pennsylvania	382	0	1,908	11,298	6,254
South Dakota	51,951	157,050	15,750	158,450	77,525
Vermont	0	0	0	6,600	15,400
Washington	0	0	0	350	9,457
Wisconsin	24,840	20,000	52,000	72,750	84,000
Wyoming	724	0	1,472	0	676
<b>TOTAL</b>	<b>632,419</b>	<b>937,842</b>	<b>1,229,571</b>	<b>1,277,228</b>	<b>606,920</b>
<b>T E T O N</b>					
Maine	4,791	3,734	19,943	89,971	69,107
Maryland	17	40	0	35	0
Michigan	30	150	0	0	0
Minnesota	143	0	630	1,230	0
Nebraska	0	0	0	815	0
New York	1,540	0	0	0	0
Pennsylvania	120,304	216,265	322,822	145,425	24,096
Vermont	1,115	400	5,175	17,050	9,500
Wyoming	2,270	25	215	1,625	239
<b>TOTAL</b>	<b>130,210</b>	<b>220,614</b>	<b>348,785</b>	<b>256,151</b>	<b>102,933</b>
<b>M O H A W K</b>					
Maine	68,643	94,201	180,976	93,319	26,213
Minnesota	115	0	0	0	0
New Jersey	124	165	425	0	0
New York	2,456	0	6,750	1,430	0
New Hampshire	88	0	0	0	0
<b>TOTAL</b>	<b>71,426</b>	<b>94,366</b>	<b>188,151</b>	<b>94,749</b>	<b>26,213</b>
<b>W A R B A</b>					
Kentucky	15	0	0	0	0
Maine	7,733	6,584	4,177	4,333	0
Maryland	16	0	0	0	0
Minnesota	30,913	25,400	29,112	2,371	1,200
Montana	390	0	0	0	0
Pennsylvania	0	0	0	0	300
New York	628	0	438	143	0
North Dakota	15,862	3,200	3,000	6,400	0
South Dakota	730	1,750	0	0	0
<b>TOTAL</b>	<b>56,287</b>	<b>36,934</b>	<b>36,727</b>	<b>13,247</b>	<b>1,500</b>

TABLE 2 (Continued)  
PRODUCTION OF CERTIFIED SEED POTATOES

State	Average 1945-49	1948	1949	1950	1951
	Bushels	Bushels	Bushels	Bushels	Bushels
<b>RED WARB A</b>					
Colorado .....	13,587	40,330	0	0	7,515
Iowa .....	924	0	2,220	1,925	800
Maryland .....	6	0	0	0	0
Minnesota .....	120,616	183,752	122,343	125,351	133,506
Nebraska .....	25,729	29,951	16,785	26,981	44,110
North Dakota .....	153,733	156,000	120,000	200,000	194,710
Pennsylvania .....	0	0	0	0	985
South Dakota .....	29,219	40,250	39,300	5,160	9,325
Wisconsin .....	23,830	41,650	20,000	35,000	40,000
Wyoming .....	10,370	1,272	0	0	0
<b>TOTAL</b> .....	<b>378,914</b>	<b>493,205</b>	<b>320,648</b>	<b>394,417</b>	<b>430,951</b>
<b>RED McCLURE</b>					
Colorado .....	800,154	1,029,900	1,014,263	738,805	751,471
Wisconsin .....	0	0	0	4,500	10,500
Wyoming .....	537	0	0	0	0
<b>TOTAL</b> .....	<b>800,691</b>	<b>1,029,900</b>	<b>1,014,263</b>	<b>743,305</b>	<b>761,971</b>
<b>RED PONTIAC</b>					
California .....	0	0	0	0	78,300
Iowa .....	0	0	0	0	4,800
Maryland .....	8	40	0	0	88
Michigan .....	0	0	0	0	365
Minnesota .....	34,328	27,454	144,184	421,236	348,158
Nebraska .....	0	0	0	27,455	14,406
North Dakota .....	279,760	470,000	900,000	1,500,000	992,200
South Dakota .....	0	0	0	21,050	40,920
Wisconsin .....	180	0	900	22,500	113,400
Wyoming .....	603	0	3,015	1,677	3,899
<b>TOTAL</b> .....	<b>314,879</b>	<b>497,494</b>	<b>1,048,099</b>	<b>1,993,918</b>	<b>1,596,536</b>

(Continued on Page 48)



This plow is being made by the students of the Bunjei Mission, Angola, West Africa. It will be used to prepare the land to plant potatoes.

**TABLE 2 (Continued)**  
**PRODUCTION OF CERTIFIED SEED POTATOES**

State	Average 1945-49	1948	1949	1950	1951
	Bushels	Bushels	Bushels	Bushels	Bushels
<b>P R O G R E S S</b>					
Colorado	0	0	0	0	6,030
Maryland	0	0	0	25	78
Nebraska	17,494	19,718	67,751	93,313	136,282
Wyoming	1,514	0	7,570	7,269	19,071
<b>TOTAL</b>	<b>19,008</b>	<b>19,718</b>	<b>75,321</b>	<b>100,607</b>	<b>161,461</b>
<b>W A S E C A</b>					
Minnesota	4,964	9,212	15,606	39,121	62,856
North Dakota	0	0	0	1,600	6,400
<b>TOTAL</b>	<b>4,964</b>	<b>9,212</b>	<b>15,606</b>	<b>40,721</b>	<b>69,256</b>
<b>S A T A P A</b>					
Minnesota	5,976	7,097	19,656	25,384	3,820
South Dakota	72	0	360	0	0
<b>TOTAL</b>	<b>6,048</b>	<b>7,097</b>	<b>20,016</b>	<b>25,384</b>	<b>3,820</b>
<b>R U S S E T   S E B A G O</b>					
Kentucky	0	0	0	0	105
Oregon	0	0	0	0	150
Wisconsin	17,760	17,400	64,200	60,000	116,400
<b>TOTAL</b>	<b>17,760</b>	<b>17,400</b>	<b>64,200</b>	<b>60,000</b>	<b>116,655</b>
<b>C H E R O K E E</b>					
Maryland	0	0	0	0	38
Minnesota	0	0	0	0	31,804
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>31,842</b>
<b>L A S O D A</b>					
Maryland	0	0	0	50	88
Nebraska	0	0	0	4,777	13,558
South Dakota	0	0	0	0	14,625
Tennessee	0	0	0	0	26
<b>TOTAL</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4,827</b>	<b>28,297</b>
<b>D E S O T O</b>					
Colorado	530	0	0	0	22,354
Nebraska	12	0	0	0	0
South Dakota	1,334	0	0	0	0
Wyoming	0	0	0	0	601
<b>TOTAL</b>	<b>1,876</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>22,955</b>
<b>W H I T E   C L O U D</b>					
Maryland	0	0	0	25	55
Nebraska	171	0	855	1,810	9,856
<b>TOTAL</b>	<b>171</b>	<b>0</b>	<b>855</b>	<b>1,835</b>	<b>9,911</b>
<b>Y A M P A</b>					
Colorado	0	0	0	0	6,766
Maryland	0	0	0	250	150
Nebraska	107	0	536	8,017	1,040
Wyoming	32	0	161	706	0
<b>TOTAL</b>	<b>139</b>	<b>0</b>	<b>697</b>	<b>8,973</b>	<b>7,956</b>
<b>C O L U M B I A   R U S S E T</b>					
North Dakota	5,280	25,000	0	6,000	0
South Dakota	0	0	0	0	3,540
<b>TOTAL</b>	<b>5,280</b>	<b>25,000</b>	<b>0</b>	<b>6,000</b>	<b>3,540</b>
<b>K A S O T A</b>					
Maryland	16	30	50	0	0
Minnesota	190	0	0	0	0
Montana	3,009	5,020	5,775	6,400	2,525
Nebraska	8,626	953	0	0	0
Wyoming	2,413	0	0	0	0
<b>TOTAL</b>	<b>14,254</b>	<b>6,003</b>	<b>5,825</b>	<b>6,400</b>	<b>2,525</b>

TABLE 2 (Continued)  
PRODUCTION OF CERTIFIED SEED POTATOES

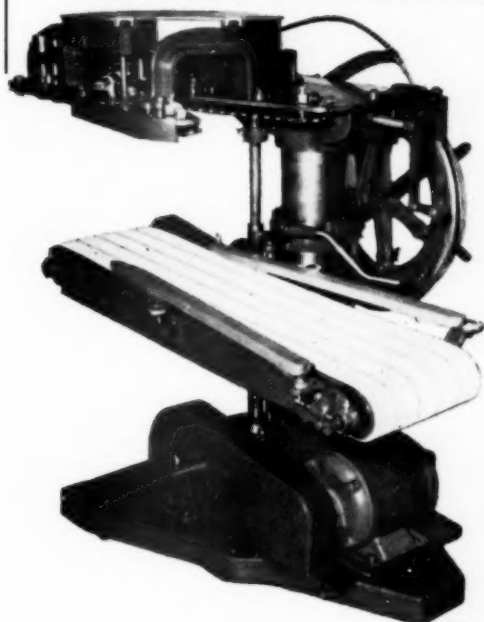
State	Average 1945-49	1948	1949	1950	1951
	Bushels	Bushels	Bushels	Bushels	Bushels
<b>BRITISH QUEEN</b>					
California .....	2,790	600	1,000	2,000	1,250
Oregon .....	2,107	1,250	1,200	1,100	700
<b>TOTAL</b> .....	<b>4,897</b>	<b>1,850</b>	<b>2,200</b>	<b>3,100</b>	<b>1,950</b>
<b>EARLY ROSE</b>					
Maine .....	11	0	57	0	0
Oregon .....	807	1,375	1,900	6,330	0
Vermont .....	50	0	0	0	0
Washington .....	223	267	450	2,200	1,332
<b>TOTAL</b> .....	<b>1,091</b>	<b>1,642</b>	<b>2,407</b>	<b>8,530</b>	<b>1,332</b>
<b>PLACID</b>					
New York .....	180	0	0	720	1,050
<b>BEAUTY OF HEBRON</b>					
Oregon .....	270	500	850	580	400
Washington .....	302	467	400	500	450
<b>TOTAL</b> .....	<b>572</b>	<b>967</b>	<b>1,250</b>	<b>1,080</b>	<b>850</b>
<b>CANOGA</b>					
New York .....	0	0	0	195	600
<b>CANUS</b>					
North Dakota .....	1,940	2,500	7,200	0	0
South Dakota .....	0	0	0	315	430
<b>TOTAL</b> .....	<b>1,940</b>	<b>2,500</b>	<b>7,200</b>	<b>315</b>	<b>430</b>
<b>ASHWORTH</b>					
Kentucky .....	0	0	0	128	392
New York .....	385	0	1,925	0	0
<b>TOTAL</b> .....	<b>385</b>	<b>0</b>	<b>1,925</b>	<b>128</b>	<b>392</b>
<b>CHENANGO</b>					
Kentucky .....	0	0	0	131	270
New York .....	856	2,520	1,760	5,946	30
Pennsylvania .....	115	0	577	0	0
<b>TOTAL</b> .....	<b>971</b>	<b>2,520</b>	<b>2,337</b>	<b>6,077</b>	<b>300</b>
<b>MARYGOLD</b>					
Maryland .....	370	640	600	375	269
<b>DAKOTA RED (Jersey Redskin)</b>					
Maryland .....	983	130	0	0	156
New Jersey .....	928	0	1,602	1,890	0
<b>TOTAL</b> .....	<b>1,911</b>	<b>130</b>	<b>1,602</b>	<b>1,890</b>	<b>156</b>
<b>WHITE PONTIAC</b>					
Maryland .....	32	40	120	350	88
<b>PUNGO</b>					
Maryland .....	0	0	0	50	75
<b>POTOMAC</b>					
Maryland .....	359	150	60	50	50
<b>SNOWDRIFT</b>					
New York .....	60	0	300	52	28
Pennsylvania .....	0	0	0	375	0
<b>TOTAL</b> .....	<b>60</b>	<b>0</b>	<b>300</b>	<b>427</b>	<b>28</b>
<b>MADISON</b>					
Maryland .....	0	0	0	25	0
New York .....	158	0	788	4,770	0
<b>TOTAL</b> .....	<b>158</b>	<b>0</b>	<b>788</b>	<b>4,795</b>	<b>0</b>
<b>MENOMINEE</b>					
Iowa .....	180	0	0	0	0
Maryland .....	128	140	0	0	0
Michigan .....	18,450	4,650	6,800	4,420	0
New York .....	200	0	0	0	0
North Dakota .....	3,542	0	0	0	0
Pennsylvania .....	2,137	0	0	0	0
Tennessee .....	10	0	0	0	0
Wisconsin .....	2,790	3,250	2,200	0	0
<b>TOTAL</b> .....	<b>27,437</b>	<b>8,040</b>	<b>9,000</b>	<b>4,420</b>	<b>0</b>

(Continued on Page 50)

TABLE 2 (Continued)  
PRODUCTION OF CERTIFIED SEED POTATOES

State	Average 1945-49	1948	1949	1950	1951
	Bushels	Bushels	Bushels	Bushels	Bushels
<b>CALROSE</b>					
California	227,474	380,600	18,000	4,200	0
Maryland	40	50	100	0	0
Oregon	350	0	0	80	0
Washington	6,359	31,797	0	0	0
TOTAL	234,223	412,447	18,100	4,280	0
<b>CHISAGO</b>					
Minnesota	545	2,727	0	4,170	0
<b>EARLIEST OF ALL</b>					
Oregon	3,936	7,000	5,000	3,460	0
Washington	467	0	0	0	0
TOTAL	4,403	7,000	5,000	3,460	0
<b>GOLD COIN</b>					
Oregon	827	1,000	1,200	330	0
Washington	763	833	500	130	0
TOTAL	1,590	1,833	1,700	460	0
<b>CAYUGA</b>					
North Dakota	4,000	0	20,000	0	0
<b>ERIE</b>					
Michigan	7,849	1,820	730	0	0
New York	11,120	0	0	0	0
Ohio	220	0	0	0	0
Pennsylvania	5,819	14,238	13,500	0	0
Wisconsin	100	0	0	0	0
TOTAL	25,108	16,058	14,230	0	0
<b>PAWNEE</b>					
Colorado	5,152	15,975	5,210	0	0
Maine	654	3,062	0	0	0
Maryland	17	0	0	0	0
New Jersey	1,093	2,236	880	0	0
TOTAL	6,916	21,273	6,090	0	0
<b>BROWN BEAUTY</b>					
Colorado	6,532	20,070	3,960	0	0
<b>EMPIRE</b>					
Maryland	30	100	0	0	0
New York	732	500	700	0	0
TOTAL	762	600	700	0	0
<b>HARMONY BEAUTY</b>					
Maine	59	0	297	0	0
<b>LA SALLE</b>					
North Dakota	4,000	20,000	0	0	0
South Dakota	3,216	3,750	0	0	0
TOTAL	7,216	23,750	0	0	0
<b>SIR WALTER RALEIGH</b>					
Pennsylvania	407	2,034	0	0	0
<b>IDAHO RURAL</b>					
Idaho	1,504	270	0	0	0
<b>EPICURE</b>					
Oregon	5	0	0	0	0
<b>MESABA</b>					
Maryland	1,157	0	0	0	0
Minnesota	3	0	0	0	0
TOTAL	1,160	0	0	0	0
<b>VARIETIES NOT CLASSIFIED</b>					
California	225	0	1,125	4,000	0
Maine	0	0	0	0	11,985
Maryland	937	205	1,410	825	832
Minnesota	11,099	15,521	39,976	0	450
Montana	0	0	0	0	200
North Dakota	14,391	0	2,500	18,750	25,525
Pennsylvania	0	0	0	30	235
Vermont	0	0	0	0	2,000
Wisconsin	0	0	0	4,200	4,100
TOTAL	26,652	15,726	45,011	27,805	45,327

## MINNEAPOLIS BAG CLOSING MACHINE



... CLOSES UP TO 2,000 5 OR 10 LB. PAPER BAGS ... AUTOMATICALLY IN ONE HOUR FOR LESS THAN

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### Results of New Jersey Scab Control Experiments

Dr. John C. Campbell of the New Jersey Agricultural Experiment Station reports the following results from potato scab control experiments which he conducted in New Jersey this past season:

"From the results obtained in these three N. J. tests, it is readily apparent that the use of 300 pounds of sulfur broadcast before planting greatly reduced the severity of common scab and did not greatly reduce the pH and had no apparent effect on yields.

"Borax at 10 or 20 pounds per acre had no effect on scab but did tend to reduce the yields in one test. Sulfate of ammonia at 300 pounds per acre reduced the severity of scab to some extent but was not of commercial value. Hydrated lime at either 200 or 400 pounds per acre greatly increased the severity of scab in the one test where it was used." From N. J. Hints to Potato Growers.

### How Temperature Affects Potatoes in Storage

At 55-60 Degrees they sprout after 70 days.

At 50-55 Degrees they sprout after 89 days.

At 45-50 Degrees they sprout after 126 days.

At 40-45 Degrees they sprout after 200 days.

Between 35 & 40 Degrees potatoes keep best.

Between 30 & 35 Degrees, potatoes turn sweet.

Below 30 Degrees, freezing injury develops.

Temperature is best regulated by:

Good Insulation, Ventilation  
Air Circulation, Heat When Needed

# POTATOES (IRISH): PRODUCTION AND FARM DISPOSITION IN THE 37 LATE AND INTERMEDIATE STATES CROP OF 1950 (Revised)

GROUP AND STATE	Pro- duction <sup>1</sup>	Fed to live- stock, shrink- age, and loss after harvest	FARM DISPOSITION		Sold	
			For farm house- hold use	Used for seed on farms where grown	Quan- tity <sup>2</sup>	Percent of crop
SURPLUS LATE STATES:		Thousand bushels			Percent	
Maine	63,360	3,738	536	1,802	57,284	90
New York	34,390	2,184	1,168	832	30,206	88
Pennsylvania	19,920	1,893	1,395	689	15,943	80
Michigan	15,300	2,066	1,568	945	10,721	70
Wisconsin	13,400	1,474	1,953	543	9,430	70
Minnesota	16,275	1,546	1,512	620	12,597	77
North Dakota	21,280	1,383	702	1,032	18,163	85
South Dakota	2,100	168	352	102	1,478	70
Nebraska	11,180 <sup>3</sup>	1,118 <sup>3</sup>	816	304	8,942	80
Montana	2,700	553	230	98	1,819	67
Idaho	49,200	3,690	273	1,197	44,040	90
Wyoming	1,800	225	44	71	1,460	81
Colorado	18,200	1,911	138	774	15,377	84
Utah	3,308	413	117	118	2,660	80
Nevada	416	56	21	20	319	77
Washington	11,780	1,001	260	102	10,417	88
Oregon	12,920	1,292	207	382	11,039	85
California (Late)	15,840	950	60	224	14,606	92
18 SURPLUS LATE	313,369	25,661	11,552	9,855	266,501	85.0
OTHER LATE STATES:						
New Hampshire	1,210	54	155	18	983	81
Vermont	1,215	73	251	56	835	69
Massachusetts	2,622	104	154	8	2,356	90
Rhode Island	1,210	42	17	3	1,148	95
West Virginia	1,785	232	1,155	106	292	16
Connecticut	2,867	129	116	8	2,614	91
Ohio	7,650	651	1,150	84	5,765	75
Indiana	4,250	212	944	92	3,002	71
Illinois	800	84	504	33	179	22
Iowa	1,485	149	696	49	591	40
New Mexico	196	10	13	4	169	86
11 OTHER LATE	25,290	1,740	5,155	461	17,934	70.9
29 LATE STATES	338,659	27,401	16,507	10,316	284,435	84.0
INTERMEDIATE STATES						
New Jersey	12,502	500	70	92	11,840	95
Delaware	584	30	74	9	471	81
Maryland	1,396	84	312	37	963	69
Virginia	7,964	318	934	80	6,632	83
Kentucky	2,002	180	1,276	69	477	24
Missouri	2,096	105	1,300	18	673	32
Kansas	896	62	332	15	487	54
Arizona	1,764	97	8	4	1,655	94
8 INTERMEDIATE	29,204	1,376	4,306	324	23,198	79.4
37 LATE AND INTERMEDIATE STATES	367,863	28,777	20,813	10,640	307,633	83.6

<sup>1</sup> Production is for the total crop grown in each State except California where only the late crop is shown.

<sup>2</sup> Consists of potatoes sold for food, seed, feed, processing and all purchases by the Government under price support program.

<sup>3</sup> Includes an estimated 65,000 bushels of commercial early crop not marketed on account of economic conditions.

## Potato Candy

Mix equal parts of soft mashed potatoes and powdered sugar. Add vanilla flavoring and almonds extract—2 teaspoons of vanilla and 1/2 of the almonds extract. Make a stiff paste. Add more sugar if necessary. Add raisins, shredded cocoanut, nut meats, peanuts, candied fruits. Spread the mixture in a buttered pan and chill for 24 hours. Cut as fudge. Butternut meats are very good in this candy.

# **POTATOES (IRISH): PRODUCTION AND FARM DISPOSITION IN THE 37 LATE AND INTERMEDIATE STATES CROP OF 1951 (Preliminary)**

GROUP AND STATE	INDICATED DISPOSITION					
	Pro- duction <sup>1</sup> after harvest	Fed and to be fed to live- stock, shrink- age, and loss	Used and saved for farm household use	Saved for seed on farms where grown	Sold and for sale Quan- tity <sup>2</sup>	Percent of crop
<b>SURPLUS LATE STATES:</b>						
Maine .....	45 835	1,604	442	2,336	41,453	90
New York .....	27,900	1,330	979	891	24,700	89
Pennsylvania .....	16,215	892	1,140	746	13,437	83
Michigan .....	10,800	1,512	1,218	874	7,196	67
Wisconsin .....	9,805	735	1,674	585	6,811	69
Minnesota .....	11,900	1,546	1,296	731	8,327	70
North Dakota .....	15,580	1,091	672	928	12,889	83
South Dakota .....	1,650	149	308	108	1,085	66
Nebraska .....	6,000	510	540	239	4,711	79
Montana .....	2,150	280	196	133	1,541	72
Idaho .....	37,520	3,940	220	1,451	31,909	85
Wyoming .....	1,202	120	26	70	986	82
Colorado .....	11,475	1,090	91	819	9,475	83
Utah .....	2,316	255	92	107	1,862	80
Nevada .....	364	44	18	25	277	76
Washington .....	11,600	1,334	192	86	9,988	86
Oregon .....	11,220	1,178	150	420	9,472	84
California (Late) .....	12,800	640	59	217	11,884	93
<b>18 SURPLUS LATE</b> .....	<b>236,332</b>	<b>18,250</b>	<b>9,313</b>	<b>10,766</b>	<b>198,003</b>	<b>83.8</b>
<b>OTHER LATE STATES:</b>						
New Hampshire .....	975	59	132	19	765	78
Vermont .....	738	45	202	56	435	59
Massachusetts .....	1,886	66	124	8	1,688	90
Rhode Island .....	1,060	37	14	3	1,006	95
Connecticut .....	2,252	124	98	7	2,023	90
West Virginia .....	1,575	165	1,040	86	284	18
Ohio .....	5,750	288	912	101	4,449	77
Indiana .....	3,360	135	675	64	2,486	74
Illinois .....	825	70	520	24	211	26
Iowa .....	1,040	109	490	32	409	39
New Mexico .....	144	15	12	4	113	78
<b>11 OTHER LATE</b> .....	<b>19,605</b>	<b>1,113</b>	<b>4,219</b>	<b>404</b>	<b>13,869</b>	<b>70.7</b>
<b>29 LATE STATES</b> .....	<b>255,937</b>	<b>19,363</b>	<b>13,532</b>	<b>11,170</b>	<b>211,872</b>	<b>82.8</b>
<b>INTERMEDIATE STATES:</b>						
New Jersey .....	7,476 <sup>3</sup>	1,122 <sup>3</sup>	53	63	6,238	83
Delaware .....	700	39	67	8	586	84
Maryland .....	1,230	61	260	34	875	71
Virginia .....	6,882	275	880	71	5,656	82
Kentucky .....	1,960	147	1,232	69	512	26
Missouri .....	1,456	88	1,080	15	273	19
Kansas .....	368	40	260	11	57	15
Arizona .....	1,387	63	9	5	1,310	94
<b>8 INTERMEDIATE</b> .....	<b>21,459</b>	<b>1,835</b>	<b>3,841</b>	<b>276</b>	<b>15,507</b>	<b>72.3</b>
<b>37 LATE AND INTERMEDIATE STATES</b> .....	<b>277,396</b>	<b>21,198</b>	<b>17,373</b>	<b>11,446</b>	<b>227,379</b>	<b>82.0</b>

<sup>1</sup> Production is for the total crop grown in each State except California where only the late crop is shown.

<sup>2</sup> Consists of potatoes sold and to be sold for all purposes, including food, seed, processing and livestock feed.

<sup>3</sup> Includes an estimated 1,093,000 bushels of the commercial early crop not marketed on account of economic conditions.

## **Roast Brown Potatoes**

Parboil potatoes for 10 minutes, then place in the pan with your meat roast and bake until tender. It is well to baste them with roast drippings once or twice during the baking.

Medium-sized potatoes are homemakers' favorites, according to a regional study by north central experiment stations and the USDA.

In a recent survey, three-fifths of homemakers contacted said they usually buy medium-sized potatoes.

# **POTATOES: ACREAGE HARVESTED, YIELD PER ACRE AND PRODUCTION IN THE UNITED STATES, CROP OF 1951 WITH COMPARISONS**

The potato crop of 1951, now revised to 325,708,000 bushels\*, is 24 percent less than the revised production of 429,896,000 bushels in 1950. Since the publication of the November 1 estimate, the production estimates for both 1950 and 1951 have been revised down about 10 million bushels in line with the lower level of production shown by the 1950 Census, for the crop year of 1949. The percentage relationship between the crops of 1950 and 1951 is the same as shown in the November report. The much lower average level shown by the 1950 Census was mostly offset by higher yields.

For the first time since 1942, potatoes were grown without a mandatory price support program. Planted acreage was reduced about 20 percent in an effort to get production in line with market requirements. Growers in all states except on Long Island, New York and Delaware reduced acreage in 1951. Harvested acreage was also 20 percent below 1950. Yield per acre was 5 percent under the record high yield of 1950.

State and Group	Acreage harvested			Yield per acre			Production		
	1940-49 Average	1950	1951	1940-49 Average	1950	1951	1940-49 Average	1950	1951
	Thousand acres			Bushels			Thousand bushels		
SURPLUS LATE POTATO STATES:									
Maine	182	132	103	328	480	445	59,654	63,360	45,835
N.Y., L.I.	62	46	48	262	365	300	16,155	16,790	14,400
N.Y., Up-State	114	64	54	149	275	250	15,990	17,600	13,500
Pa.	140	83	69	142	240	235	19,176	19,920	16,215
3 EASTERN	498	325	274	227.3	362.1	328.3	110,975	117,670	89,950
Mich.	160	85	60	116	180	180	17,755	15,300	10,800
Wis.	132	67	53	103	200	185	12,708	13,400	9,805
Minn.	170	93	70	114	175	170	18,147	16,275	11,900
N. Dak.	148	112	82	135	190	190	19,589	21,280	15,580
S. Dak.	29	14	11	84	150	150	2,435	2,100	1,650
5 CENTRAL	638	371	276	115.7	184.2	180.2	70,633	68,355	49,735
Nebr.	68	43	30	156	260	200	10,542	21,180	6,000
Montana	16	12	10	131	225	215	2,100	2,700	2,150
Idaho	154	164	134	243	300	280	37,379	49,200	37,520
Wyoming	13.2	7.5	6.5	171	240	185	2,219	1,800	1,202
Colorado	77	56	45	226	325	255	17,313	18,200	11,475
Utah	15.3	13.5	11.3	183	245	205	2,801	3,308	2,316
Nevada	2.6	1.6	1.4	203	260	260	524	416	364
Washington	38	31	29	244	380	400	9,254	11,780	11,600
Oregon	43	38	34	249	340	330	10,736	12,920	11,220
California	38	44	32	326	360	400	12,490	15,840	12,800
10 WESTERN	466.2	410.6	333.2	226.6	310.1	290.1	165,358	127,344	96,647
TOTAL 18	1,602.2	1,106.6	883.2	183.2	283.2	267.6	286,967	313,369	236,332
OTHER LATE POTATO STATES:									
New Hampshire	6.4	4.4	3.9	177	275	250	1,102	1,210	975
Vermont	10.0	5.4	4.1	148	225	180	1,430	1,215	738
Massachusetts	19.4	10.7	8.2	170	245	230	3,214	2,622	1,886
Rhode Island	6.1	4.4	4.0	206	275	265	1,263	1,210	1,060
Connecticut	17.1	9.4	7.9	205	305	285	3,440	2,867	2,252
West Virginia	28	17	15	105	105	105	2,942	1,785	1,575
Ohio	65	30	25	124	255	230	7,731	7,650	5,750
Indiana	35	17	14	137	250	240	4,502	4,250	3,360
Illinois	23	8	7.5	89	100	110	1,981	800	825
Iowa	32	11	8	100	135	130	3,232	1,485	1,040
New Mexico	3.5	1.4	1.2	81	140	120	283	196	144
TOTAL 11	245.6	118.7	98.8	131.8	213.1	198.4	31,119	25,290	19,605
29 LATE STATES	1,847.8	1,225.3	982.0	176.8	276.4	260.6	318,086	338,659	255,937

**POTATOES: ACREAGE HARVESTED, YIELD PER ACRE AND PRODUCTION IN THE UNITED STATES, CROP OF 1951 WITH COMPARISONS (Continued)**


State and Group	Acreage harvested			Yield per acre			Production		
	1940-49	1950	1951	1940-49	1950	1951	1940-49	1950	1951
	Average			Average			Average		
	Thousand acres			Bushels			Thousand bushels		
INTERMEDIATE POTATO STATES:									
New Jersey .....	61	38	28	185	329	267	11,213	12,502	7,476
Delaware .....	3.7	3.3	3.5	93	177	200	342	584	700
Maryland .....	17.3	9.9	8.2	112	141	150	1,906	1,396	1,230
Virginia .....	68	44	37	133	181	186	8,998	7,964	6,882
Kentucky .....	39	22	20	90	91	98	3,546	2,002	1,960
Missouri .....	31	16	13	113	131	112	3,446	2,096	1,456
Kansas .....	19.2	8.3	4.6	96	108	80	1,824	896	368
Arizona .....	4.6	4.9	3.8	238	360	365	1,179	1,764	1,387
TOTAL 8 .....	244.1	146.4	118.1	135.1	199.5	181.7	32,454	29,204	21,459
37 LATE & INTER-MEDIATE .....	2,091.9	1,371.7	1,100.1	171.9	268.2	252.2	350,540	367,863	277,396
EARLY POTATO STATES:									
North Carolina ....	80	62	49	117	167	141	9,295	10,354	6,909
South Carolina .....	23	15	13	107	106	149	2,457	1,590	1,937
Georgia .....	22	8.5	7	68	80	69	1,517	680	483
Florida .....	29.8	24.7	24.5	147	226	258	4,306	5,582	6,321
Tennessee .....	37	23	19	84	100	81	3,088	2,300	1,539
Alabama .....	46	32	31	92	116	136	4,186	3,712	4,216
Mississippi .....	24	12	9	68	68	58	1,632	816	522
Arkansas .....	38	20	14	83	87	79	3,100	1,740	1,106
Louisiana .....	40	14	12	59	63	62	2,346	882	744
Oklahoma .....	23	8.5	6.5	68	91	81	1,540	774	626
Texas .....	50	27	19	93	89	116	4,648	2,403	2,204
Californial .....	58	78	49	357	400	445	21,549	231,200	21,805
TOTAL 12 .....	472.3	324.7	253.0	129.2	191.0	191.0	59,664	62,033	48,312
TOTAL U. S. ....	2,564.2	1,696.4	1,353.1	164.0	253.4	240.7	410,203	429,896	325,708

<sup>1</sup> Early and late crops shown separately for California; combined for all other States.

<sup>2</sup> Includes the following quantities of commercial early potatoes not marketed (1,000 bushels): 1950, Nebraska, 65; California, 1,170; 1951, New Jersey, 1,093.

\* U.S.D.A., B.A.E. Crop Reporting Board.

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**PRICES AND VALUES OF 1950 AND 1951 CROPS,  
BY STATES—POTATOES<sup>1</sup>**

GROUP AND STATE	Season average price per bushel received by farmers		Value of production <sup>3</sup>	
	1950	1951 <sup>2</sup>	1950	1951 <sup>2</sup>
	Dollars		Thousand dollars	
SURPLUS LATE POTATO STATES:				
Maine .....	.77	1.60	48,787	73,336
New York .....	.70	1.35	24,073	37,665
Pennsylvania .....	.98	1.70	19,522	27,566
3 EASTERN .....	.785	1.54	92,382	138,567
Michigan .....	.98	1.80	14,994	19,440
Wisconsin .....	1.13	1.50	15,142	14,708
Minnesota .....	.92	1.50	14,973	17,850
North Dakota .....	.80	1.60	17,024	24,928
South Dakota .....	1.23	1.75	2,583	2,888
5 CENTRAL .....	.947	1.60	64,716	79,814
Nebraska .....	.56	1.35	6,224	8,100
Montana .....	1.23	1.75	3,321	3,762
Idaho .....	.52	1.25	25,584	46,900
Wyoming .....	1.10	1.75	1,980	2,104
Colorado .....	1.04	1.75	18,928	20,081
Utah .....	1.05	1.85	3,473	4,285
Nevada .....	1.21	2.00	503	728
Washington .....	1.08	1.35	12,722	15,660
Oregon .....	.93	1.65	12,016	18,513
California .....	1.10	1.65	50,457	57,098
10 WESTERN .....	.860	1.50	135,208	177,231
TOTAL 18 SURPLUS LATE .....	.851	1.53	292,306	395,612
OTHER LATE POTATO STATES:				
New Hampshire .....	1.28	1.90	1,549	1,852
Vermont .....	1.32	1.85	1,604	1,365
Massachusetts .....	1.23	1.75	3,225	3,300
Rhode Island .....	1.23	1.70	1,488	1,802
Connecticut .....	1.24	1.90	3,555	4,279
West Virginia .....	1.55	1.85	2,767	2,914
Ohio .....	1.27	1.70	9,716	9,775
Indiana .....	1.49	1.85	6,332	6,216
Illinois .....	1.50	1.75	1,200	1,444
Iowa .....	1.56	1.80	2,317	1,872
New Mexico .....	1.35	1.60	265	230
TOTAL 11 OTHER LATE .....	1.35	1.79	34,018	35,049
29 LATE STATES .....	.885	1.55	326,324	430,661
INTERMEDIATE POTATO STATES:				
New Jersey .....	.82	1.07	10,252	7,999
Delaware .....	1.18	1.15	689	805
Maryland .....	1.27	1.20	1,773	1,476
Virginia .....	.94	1.25	7,486	8,602
Kentucky .....	1.01	1.30	2,022	2,548
Missouri .....	1.33	1.55	2,788	2,257
Kansas .....	1.20	1.40	1,075	515
Arizona .....	1.31	1.60	2,311	2,219
TOTAL 8 INTERMEDIATE .....	.972	1.23	28,396	26,421
37 LATE AND INTERMEDIATE .....	.892	1.53	354,720	457,082

GROUP AND STATE	Season average price per bushel received by farmers		Value of production <sup>3</sup>	
	1950	1951 <sup>2</sup>	1950	1951 <sup>2</sup>
	Dollars		Thousand dollars	
EARLY POTATO STATES:				
North Carolina .....	.79	1.28	8,180	8,844
South Carolina .....	1.35	1.52	2,146	2,944
Georgia .....	1.45	1.55	986	749
Florida .....	1.67	1.85	9,322	11,694
Tennessee .....	1.12	1.30	2,576	2,001
Alabama .....	1.31	1.20	4,863	5,059
Mississippi .....	1.76	1.65	1,436	861
Arkansas .....	1.33	1.60	2,314	1,770
Louisiana .....	1.57	1.65	1,385	1,228
Oklahoma .....	1.19	1.80	921	947
Texas .....	1.53	1.90	3,677	4,188
TOTAL 11 EARLY STATES <sup>1</sup> .....	1.23	1.52	37,806	46,285
TOTAL UNITED STATES .....	.916	1.53	392,526	497,367

<sup>1</sup> Estimates for each State cover the entire crop, whether commercial or noncommercial, early or late.

<sup>2</sup> The 1951 price and value figures are preliminary.

<sup>3</sup> Production for 1950 in Nebraska and California includes some quantities of commercial early potatoes not marketed and excluded in computing value.

<sup>4</sup> List of early States excludes California. Average price and total value of all California potatoes shown under surplus late States.

For potatoes, the beginning of the crop marketing season varies between States from December 1 preceding the year shown for Florida and Texas to August 1 of the year shown for certain northern States. The marketing season comprises 12 months in all States except California, which has a 14 month season beginning April 1 of the year shown. The values shown are for the marketing season or crop year and should not be confused with calendar year income.

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# RESEARCH PROJECTS AND PERSONS ENGAGED IN CONDUCTING RESEARCH ON IRISH POTATOES

Project	Special Emphasis	Research Worker	Location of Experiment Station or Laboratory
Potato Breeding and/or Variety Testing	Chipping quality	C. H. Dearborn M. F. Babb Arvo Kallio John L. Bowers J. K. Greig Glen N. Davis A. M. Binkley J. S. Gregory Arthur Hawkins E. P. Brasher E. M. Rahn Ralph L. Smith J. E. Bailey G. W. Woodbury Walter Sparks R. C. Ladeburg D. F. Franklin Hugh McKay N. K. Ellis G. A. Gries Allan Schark Julian C. Miller Raymon E. Webb Reiner Bonde Donald Folsom C. E. Cunningham G. L. Terman A. Stanley Getchell R. A. Struchtemeyer Don Merriam C. E. Cox C. V. Kightlinger Karol Kucinski J. H. Muncie H. C. Moore E. J. Wheeler J. Tyson F. A. Krantz Fred A. Gowan Carl J. Eide Charles E. Logsdon C. H. Griffith B. C. Beresford M. J. Thompson Florian Lauer Allan G. Peterson W. S. Anderson M. M. Afanasiev H. N. Metcalf H. O. Werner Robert O'Keefe Paul T. Blood John C. Campbell J. R. Livermore J. C. Peterson Fred D. Cochran Frank Haynes W. G. Hoyman Robert Johansen J. H. Schultz Eunice Kelly R. L. Post R. L. Witz John Bushnell H. D. Brown F. A. Romshe W. R. Mills D. A. Schallock Wm. M. Epps W. C. Barnes T. R. Gilmore D. R. McAllister Kenneth E. Varney Seth B. Locke J. D. Menzies C. L. Vincent	Palmer, Alaska Palmer, Alaska Fairbanks, Alaska Fayetteville, Ark. <sup>1</sup> Fayetteville, Ark. <sup>1</sup> Davis, Calif. Fort Collins, Colo. Fort Collins, Colo. Storrs, Conn. Newark, Del. <sup>1</sup> Newark, Del. <sup>1</sup> Quincy, Fla. Experiment, Ga. Moscow, Idaho Moscow, Idaho Moscow, Idaho Moscow, Idaho Moscow, Idaho Lafayette, Ind. Lafayette, Ind. Ames, Iowa Baton Rouge, La. Baton Rouge, La. Orono, Maine Orono, Maine Orono, Maine Orono, Maine Orono, Maine Presque Isle, Maine College Park, Md. Amherst, Mass. Amherst, Mass. East Lansing, Mich. East Lansing, Mich. East Lansing, Mich. East Lansing, Mich. St. Paul 1, Minn. St. Paul 1, Minn. St. Paul 1, Minn. St. Paul 1, Minn. Grand Rapids, Minn. Crookston, Minn. Duluth, Minn. St. Paul, Minn. St. Paul, Minn. State College, Miss. Bozeman, Mont. Bozeman, Mont. Lincoln, Nebr. Lincoln, Nebr. Durham, N. H. New Brunswick, N. J. Ithaca, N. Y. <sup>1</sup> Ithaca, N. Y. <sup>1</sup> Raleigh, N. C. Raleigh, N. C. Fargo, N. D. Fargo, N. D. Fargo, N. D. Fargo, N. D. Fargo, N. D. Wooster, Ohio Wooster, Ohio Blair, Okla. State College, Pa. Kingston, R. I. Charleston, S. C. <sup>1</sup> Clemson, S. C. <sup>1</sup> Crossville, Tenn. Logan, Utah Burlington, Vt. Pullman, Wash. <sup>1</sup> Prosser, Wash. <sup>1</sup> Pullman, Wash. <sup>1</sup>

<sup>1</sup> From 1951 Yearbook

# RESEARCH PROJECTS AND PERSONS ENGAGED IN CONDUCTING RESEARCH ON IRISH POTATOES

Project	Special Emphasis	Research Worker	Location of Experiment Station or Laboratory
Potato Breeding and/or Variety Testing	Variety improvement	{K. C. Westover {M. E. Gallegly G. H. Rieman	Morgantown, W. Va. Morgantown, W. Va. Madison, Wis. <sup>1</sup>
	Ring rot, scab resistance	Wm. A. Riedl	Laramie, Wyo.
	Scab resistance	L. A. Schaall (USDA)	Ft. Collins, Colo. <sup>1</sup>
	Scab resistance	W. C. Edmundson (USDA)	Greeley, Colo. <sup>1</sup>
	Cytogenetics	R. W. Back, Jr. (USDA)	College Park, Md. <sup>1</sup>
	Disease resistance	E. S. Schultz (USDA)	Beltsville, Md. <sup>1</sup>
	Adaptability, scab resistance	F. L. Lauer (USDA)	St. Paul 1, Minn. <sup>1</sup>
	Scab races	C. E. Logsdon (USDA)	St. Paul 1, Minn. <sup>1</sup>
	Hort. characters and vitamin C	W. L. Jewell (USDA)	Lincoln, Nebr. <sup>1</sup>
	Black spot and blight	M. K. Corbett (USDA)	Ithaca, N. Y. <sup>1</sup>
	Scab and virus resistance	R. H. Johansen (USDA)	Fargo, N. D. <sup>1</sup>
	Scab resistance	E. C. Gasiorkiewicz (USDA)	Madison, Wis. <sup>1</sup>
	Leader National Breeding Program	F. J. Stevenson (USDA)	Beltsville, Md. <sup>1</sup>
	Leader Western Region	John G. McLean (USDA)	Aberdeen, Iowa <sup>1</sup>
	Leader North Central Region	C. E. Peterson (USDA)	Ames, Iowa <sup>1</sup>
	Leader Southern Region	T. P. Kykstra (USDA)	Baton Rouge, La. <sup>1</sup>
	Leader Northeast Region	R. V. Akeley (USDA)	Presque Isle, Maine <sup>1</sup>
	Leader, Potato Introductions	R. W. Hougas (USDA)	Madison, Wis.

<sup>1</sup> From 1951 Yearbook

(Continued on Page 60)



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### RESEARCH PROJECTS AND PERSONS ENGAGED IN CONDUCTING RESEARCH ON IRISH POTATOES

Project	Special Emphasis	Research Worker	Location of Experiment Station or Laboratory
Cultural Studies	Vine killing and weed control	C. H. Dearborn	Palmer, Alaska
	Vine killing	Arvo Kallio	Fairbanks, Alaska
	Vine killing	C. I. Branton	Palmer, Alaska
	Hormones	Robert Kunkel	Fort Collins, Colo.
	Plant growth regulators	Jess Fults	Fort Collins, Colo.
	Plant growth regulators	Mrs. M. Payne	Fort Collins, Colo.
	Plant growth regulators	H. Pauleston	Fort Collins, Colo.
	Plant growth regulators	R. E. Carlson	Fort Collins, Colo.
	Plant growth regulators	W. E. Pyke	Fort Collins, Colo.
	Improvement	E. N. McCubbin	Hastings, Fla.
		J. L. Malcolm	Homestead, Fla.
		Walter C. Sparks	Moscow, Idaho
		Frank Takatori	Moscow, Idaho
	Yield and quality	N. K. Ellis	Lafayette, Ind.
		C. C. Singletary	Manhattan, Kan.
		F. B. Hadle	Manhattan, Kan.
		E. M. Emmert	Lexington, Ky.
		C. E. Cunningham	Orono, Maine
		G. L. Terman	Orono, Maine
		A. Stanley Getchell	Orono, Maine
		Paul N. Carpenter	Orono, Maine
		R. A. Struchtemeyer	Orono, Maine
	Effect on quality	H. C. Moore	East Lansing, Mich.
	Tillage and rotation	J. Tyson	East Lansing, Mich.
	Effect on quality	E. J. Wheeler	East Lansing, Mich.
	Chipping quality	S. T. Dexter	East Lansing, Mich.
	Culinary quality	A. J. Poivan	St. Paul 1, Minn.
	Hollow heart, tuber color	Robert E. Nylund	St. Paul 1, Minn.
	Cooking qualities	Isabel Noble	St. Paul 1, Minn.
	Nutritional values	Jane Leichsenring	St. Paul 1, Minn.
		V. E. Iverson	Bozeman, Mont.
	Dryland crop rotations	H. O. Werner	Lincoln 1, Neb.
	Water relations	Robert O'Keefe	Lincoln 1, Neb.
	Survey	George Stachwick	Lincoln 1, Neb.
	Dryland crop rotations	H. W. Chapman	Lincoln 1, Neb.
	Irrigation rotations	Lionel Harris	Scottsbluff, Neb.
	Rotations	Ford S. Prince	Durham, N. H.
	Chipping quality	Paul T. Blood	Durham, N. H.
	Erosion control	Louis T. Kardos	Durham, N. H.
	Crop rotations	John C. Campbell	New Brunswick, N. J.
	Weed control	Ora Smith	Ithaca, N. Y. 1
	Vine killing	W. G. Hoyman	Fargo, N. D.
	Soil structure	John Bushnell	Wooster, Ohio
	Weed control	J. S. Cobb	State College, Pa.
		T. E. Odland	Kingston, R. I.
		D. A. Shallock	Kingston, R. I.
	Potato improvement	K. C. Westover	Morgantown, W. Va.
	Vine killing	C. M. Rincker	Laramie, Wyo.
		Herbert Findlen (USDA)	East Grand Forks, N. D. 1
Disease Studies and Control	Ring rot, scab, viruses	D. M. Coe	Palmer, Alaska
	Scab and viruses	John W. Oswald	Davis, Calif.
	Leak, seed piece decay	George Lane	Ft. Collins, Colo.
	Chemical suberization	A. O. Simonds	Ft. Collins, Colo.
	Blight	J. W. Heuberger	Newark, Del. 1
		A. H. Eddins	Hastings, Fla.
	Verticillium wilt, leafroll	G. D. Ruehle	Homestead, Fla.
	Verticillium wilt	R. C. Ladeburg	Moscow, Idaho
	Verticillium wilt	W. C. Sparks	Moscow, Idaho
	Verticillium wilt	J. G. McLean	Moscow, Idaho
	Leafroll	Charles Simpkins	Moscow, Idaho
	Leafroll	C. W. Hungerford	Moscow, Idaho
	Leafroll	D. F. Franklin	Moscow, Idaho
	Leafroll	A. J. Walz	Moscow, Idaho
	Leafroll	H. C. Manis	Moscow, Idaho
	Blight forecasting	R. W. Sampson	Lafayette, Ind.
	Scab	G. A. Gries	Lafayette, Ind.
		E. O. Elmer	Manhattan, Kan.
	Ring rot, blight, viruses	Reiner Bonde	Orono, Maine
	Leafroll	Donald Folsom	Orono, Maine
	Virus dissemination	G. W. Simpson	Orono, Maine
		A. I. Bourne	Amherst, Mass. 1
	Blight	C. V. Kightlinger	Amherst, Mass. 1
	Scab	H. C. Moore	East Lansing, Mich.
	Scab	J. Tyson	East Lansing, Mich.
	Fusarium wilt, scab	J. H. Muncie	East Lansing, Mich.

# RESEARCH PROJECTS AND PERSONS ENGAGED IN CONDUCTING RESEARCH ON IRISH POTATOES

Project	Special Emphasis	Research Worker	Location of Experiment Station or Laboratory
Disease Studies and Control	Fusarium wilt, scab	E. J. Wheeler	East Lansing, Mich.
	Fungicides	Carl J. Elde	St. Paul 1, Minn.
	Seed treatments, storage		
	rots	Donald Olmstead	St. Paul 1, Minn.
	Ring rot	Charles E. Logsdon	St. Paul 1, Minn.
	Late blight	H. D. Thurston	St. Paul 1, Minn.
	Blight, fungicides	John C. Campbell	New Brunswick, N. J.
		L. W. Nielsen	Raleigh, N. C.
	Fungicides, ring rot	W. G. Hoyman	Fargo, N. D.
	Ring rot	C. I. Nelson	Fargo, N. D.
	Ring rot	J. L. Parsons	Fargo, N. D.
	Fungicides, concentrated sprays	J. D. Wilson	Wooster, Ohio
	Seed-piece decay, storage	George Barnes	Corvallis, Ore.
	rots	John A. Milbraith	Corvallis, Ore.
	Fungicides	Roy A. Young	Corvallis, Ore.
		H. W. Thurston, Jr.	State College, Pa.
	Fungicides	R. E. Patterson	State College, Pa.
		F. L. Howard	Kingston, R. I.
		L. T. Richards	Brookings, S. D.
		C. M. Nagel	Brookings, S. D.
Economic Studies	Virus	C. L. Vincent	Pullman, Wash. <sup>1</sup>
	Virus	S. B. Locke	Pullman, Wash. <sup>1</sup>
	Fungicides	M. E. Gallegly	Morgantown, W. Va.
	Viruses	R. H. Larson	Madison, Wis. <sup>1</sup>
		H. J. Walters	Laramie, Wyo.
	Farm management	Irving F. Fellows	Storrs, Conn.
	Regional project NCM-8, effect gov't program on potato industry	W. E. Schrumpt	Orono, Maine
	Price support and marketing agreements*	Willard W. Cochrane	St. Paul 1, Minn.
		Roger W. Gray	St. Paul 1, Minn.
		Vernon Sorenson	St. Paul 1, Minn.
Fertilizers and Soils		Perry V. Hemphill	Fargo, N. D.
		R. W. Schickele	Fargo, N. D.
	Minor elements and side dressing	John I. Ware	Auburn, Ala.
		W. A. Johnson	Auburn, Ala.
		Otto Brown	Auburn, Ala.
		Frank Garrett	Auburn, Ala.
		Arvo Kallio	Fairbanks, Alaska
		A. H. Mick	Palmer, Alaska
	Quality	C. H. Dearborn	Palmer, Alaska
		W. M. Laughlin	Palmer, Alaska
		John L. Bowers	Fayetteville, Ark. <sup>1</sup>
		J. G. Greig	Fayetteville, Ark. <sup>1</sup>
		Oscar A. Lorenz	Davis, Calif.
	Rate, ratio, rotations	Robert Kunkel	Ft. Collins, Colo.
		H. A. Brown	Storrs, Conn.
		Arthur Hawkins	Storrs, Conn.
		E. J. Rubins	Storrs, Conn.
		R. I. Munsell	Storrs, Conn.
	Urea and sugar	Ralph L. Smith	Quincy, Fla.
		E. M. Emmert	Lexington, Ky.
		G. L. Terman	Orono, Maine
		C. E. Cunningham	Orono, Maine
		A. Stanley Getchell	Orono, Maine
		Paul N. Carpenter	Orono, Maine
		Roland A. Struchtemeyer	Orono, Maine
	Formula and analysis	J. H. Axley	College Park, Md.
		J. Tyson	East Lansing, Mich.
		Victor N. Lambeth	Columbia, Mo. <sup>1</sup>
	Ratios	F. M. Harrington	Bozeman, Mont.
		V. E. Spencer	Reno, Nevada <sup>1</sup>
		Ford S. Prince	Durham, N. H.
	Effect on chips	Paul T. Blood	Durham, N. H.
		Louis T. Kardos	Durham, N. H.
	Ratios, rates, placement	John C. Campbell	New Brunswick, N. J.
		Moyle Howard	Raleigh, N. C.
	Soil porosity	John Bushnell	Wooster, Ohio
		M. J. Johnson	Redmond, Ore.
	Rate and time of application	F. G. Merkle	State College, Pa.
		T. E. Odland	Kingston, R. I.
		D. A. Shallock	Kingston, R. I.
		C. A. Burleson	College Station, Tex. <sup>1</sup>
		Paul W. Leeper	College Station, Tex. <sup>1</sup>
		K. C. Berger	Madison, Wis. <sup>1</sup>

\* In cooperation with Minn. and Nebr. Agr. Expt. Stations.

<sup>1</sup> From 1951 Yearbook

# RESEARCH PROJECTS AND PERSONS ENGAGED IN CONDUCTING RESEARCH ON IRISH POTATOES

Project	Special Emphasis	Research Worker	Location of Experiment Station or Laboratory
Harvesting and Handling	Skinning prevention	C. B. Hall	Gainesville, Fla.
	Effect on storage quality	{Walter C. Sparks	Moscow, Idaho
		{G. W. Woodbury	Moscow, Idaho
	Equipment improvement	{H. D. Bartlett	Orono, Maine
		{R. B. Hopkins	Orono, Maine
		{F. W. Peikert	Orono, Maine
Harvesting equipment		A. H. Graves (USDA)	East Grand Forks, Minn. <sup>1</sup>
		John Strait	St. Paul 1, Minn.
		C. L. McCombs	Raleigh, N. C.
		R. L. Witz	Fargo, N. D.
		{Eunice Kelly	Fargo, N. D.
Bruising resistance		Perry Hemphill	Fargo, N. D.
		{J. H. Schultz	Fargo, N. D.
Insect Control and Related Factors	Wireworms	R. H. Washburn	Palmer, Alaska
	Psyllids, leafroll	Leslie Daniels	Et. Collins, Colo.
	Wireworms	Nelly Turner	New Haven, Conn. 1
	Wireworms	T. M. Dobrovsky	Hastings, Fla.
	Nematodes	Eugene Dallimore	Moscow, Idaho
	Nematodes	C. W. Hungerford	Moscow, Idaho
	Aphids-leafroll	W. A. Shands (USDA)	Orono, Maine
	Aphids-leafroll	G. W. Simpson	Orono, Maine
	Wireworms	J. H. Hawkins	Orono, Maine
	Transmission of purple top	A. I. Bourne	Amherst, Mass. 1
		Allan G. Peterson	St. Paul 1, Minn.
	Flea beetles-soil insecticides	{Roscoe E. Hill	Lincoln, Nebr.
		{Robert Staples	Lincoln, Nebr.
		{Lloyd Anderson	Lincoln, Nebr.
	Insecticides	John C. Campbell	New Brunswick, N. J.
	Insecticides	J. P. Reed	New Brunswick, N. J.
	Insecticides	B. B. Pepper	New Brunswick, N. J.

<sup>1</sup> From 1951 Yearbook

(Continued on Page 63)



## POTATO CHEMICALS

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Improve both stands and yields by checking diseases on your potatoes. "Semesan Bel" is highly effective in destroying seed-borne disease organisms and helping to protect seed from disease organisms in the soil.

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# RESEARCH PROJECTS AND PERSONS ENGAGED IN CONDUCTING RESEARCH ON IRISH POTATOES

Project	Special Emphasis	Research Worker	Location of Experiment Station or Laboratory
Insect Control and Related Factors	Insecticides-rates methods	{ W. J. Promersberger R. L. Post M. G. Rostberg	Fargo, N. D. Fargo, N. D. Fargo, N. D.
	Varietal resistance	J. P. Slesman	State Seed Dept. Wooster, Ohio
	Spread of disease	{ J. A. Milbraith Roy A. Young George Barnes	Corvallis, Ore. Corvallis, Ore. Corvallis, Ore.
	Insecticides	H. W. Thurston	State College, Pa.
	Insecticides	R. E. Patterson	State College, Pa.
Irrigation		L. D. Doreen	Davis, Calif.
	Rotations	Orlando Howe	Scottsbluff, Nebr.
	Effect on food value and chipping quality	{ L. C. Harris Harold Rhoades John Bushnell	Scottsbluff, Nebr. Scottsbluff, Nebr. Wooster, Ohio
	Effect on yield and quality legal aspects	{ H. D. Brown F. A. Romshe John C. Campbell R. J. Penn	Wooster, Ohio Blair, Okla. New Brunswick, N. J. Madison, Wis. 1
Marketing and Related Factors	Spoilage and waxing	H. A. Johnson	Palmer, Alaska
		Raymond Burdick	Ft. Collins, Colo.
		R. E. L. Greene	Gainesville, Fla.
		Clayton P. Libeau	Moscow, Idaho
		W. E. Folz	Moscow, Idaho
	Consumer acceptance	H. R. Kopper	Manhattan, Kan.
		W. F. Pickett	Manhattan, Kan.
		C. H. Merchant	Orono, Maine
		A. L. Perry	Orono, Maine
		W. E. Schrumph	Orono, Maine
	Consumer acceptance	Robert A. Fitzpatrick	Amherst, Mass. 1
		H. C. Moore	East Lansing, Mich.
		E. J. Wheeler	East Lansing, Mich.
	Spoilage	F. A. Krantz	St. Paul 1, Minn.
Nutritional Value and Related Studies	Culinary quality	Clarence Miller	Lincoln 1, Nebr.
		J. M. Johnson	Blacksburg, Va.
	Effect of altitude on vitamins	H. H. Bakken	Madison, Wis. 1
	Palatability	{ A. H. Mick M. F. Babb	Palmer, Alaska Palmer, Alaska
	Palatability	W. M. Laughlin	Palmer, Alaska
	Dairy feed	Elizabeth Dyer	Ft. Collins, Colo.
	Poultry feed	Miriam Hummel	Ft. Collins, Colo.
	Poultry feed	Mary Greenwood	Storrs, Conn.
	Poultry feed	Arthur Hawkins	Storrs, Conn.
	Poultry feed	H. C. Dickey	Orono, Maine
	Poultry feed	Cecil E. Howes	Orono, Maine
	Poultry feed	J. Robert Smyth	Orono, Maine
	Poultry feed	R. W. Gerry	Orono, Maine
	Culinary quality	{ H. C. Moore E. J. Wheeler	East Lansing, Mich. East Lansing, Mich.
	Culinary quality	P. Paul	East Lansing, Mich.
	Cooking quality and nutritive value	{ K. Gaffner M. E. Cravens	East Lansing, Mich. East Lansing, Mich.
	Culinary quality	L. V. Nelson	East Lansing, Mich.
	Culinary quality	R. V. Nylund	St. Paul 1, Minn.
	Cooking quality	A. J. Poivan	St. Paul 1, Minn.
Physiological studies	Livestock food	Isabel Nobel	St. Paul 1, Minn.
		Jane Leichsenring	St. Paul 1, Minn.
	Ascorbic acid	{ A. L. Harvey T. M. McCall	St. Paul 1, Minn. St. Paul 1, Minn.
		H. D. Fausch	St. Paul 1, Minn.
	Culinary quality	H. O. Werner	Lincoln, Nebr.
	Culinary quality	Ruth Leverton	Lincoln, Nebr.
	Culinary quality	Flora Hanning	Madison, Wis. 1
	Canning quality	K. G. Weckel	Madison, Wis. 1
	Factors affecting quality	Robert E. Nyland	St. Paul 1, Minn.
	Metabolism	A. J. Poivan	St. Paul 1, Minn.
	Metabolism	H. W. Chapman	Lincoln, Nebr.
	Wound healing	H. O. Werner	Lincoln, Nebr.
		Joan M. Wallace	Lincoln, Nebr.

1 From 1951 Yearbook

# RESEARCH PROJECTS AND PERSONS ENGAGED IN CONDUCTING RESEARCH ON IRISH POTATOES

Project	Special Emphasis	Research Worker	Location of Experiment Station or Laboratory
Seed Stock Improvement		C. W. Frutchey Richard Garber J. S. Gregory E. L. Newdick M. W. Felton J. A. Milbraith Roy A. Young George Barnes H. M. Darling	Ft. Collins, Colo. Center, Colo. Ft. Collins, Colo. Augusta, Maine Alliance, Nebr. Corvallis, Ore. Corvallis, Ore. Corvallis, Ore. Madison, Wis.
Storage and Related Factors	Mechanical damage	M. F. Babb Leonard L. Morris W. C. Sparks G. W. Woodbury W. V. Hukill Raymon E. Webb	Palmer, Alaska Davis, Calif. Moscow, Idaho Moscow, Idaho Ames, Iowa Baton Rouge, La.
	Handling equipment	H. D. Bartlett	Orono, Maine
	Handling equipment	R. B. Hopkins	Orono, Maine
	Handling equipment	F. W. Peikert	Orono, Maine
		E. J. Wheeler	East Lansing, Mich.
	Equipment	Robert E. Nylund	St. Paul 1, Minn.
	Handling equipment	John Strait	St. Paul 1, Minn.
	Physiology	A. D. Edgar (USDA)	East Grand Forks, Minn.
	Seed	J. M. Lutz (USDA)	East Grand Forks, Minn.
		H. O. Werner	Lincoln, Nebr.
	Structures and ventilation	{ Carl Haynes (USDA) John C. Campbell	New Brunswick, N. J. New Brunswick, N. J.
Manufacture of Industrial and Food Products		Carl E. Hendel (USDA) Horace K. Burr (USDA) Mildred M. Boggs (USDA) R. L. Olson (USDA) W. O. Harrington (USDA) F. P. Griffiths (USDA)	{ Western Reg. Res. Lab. Albany, Calif.
	Processing	{ W. E. Pyke G. Johnson R. E. Carlson C. O. Guss A. R. Patton	{ Fort Collins, Colo.
	Processing	{ Mathew E. Highlands J. J. Licciardello John S. Getchell	{ Orono, Maine
	Dehydrated mashed potatoes & potato chip products	{ C. F. Woodward R. H. Treadway J. Siciliano E. H. Heisler Ann S. Hunter	{ Eastern Reg. Res. Lab., Philadelphia, Pa.
	Basic composition studies	{ C. F. Woodward E. A. Talley	{ Eastern Reg. Res. Lab., Philadelphia, Pa.
	Potato starch derivatives	{ C. F. Woodward E. Yanovsky A. N. Wrigley J. H. Schwartz C. A. Brown	{ Eastern Reg. Res. Lab., Philadelphia, Pa.
	Methods of making flour, feed and industrial products	{ R. K. Eskew P. W. Edwards A. Hoersch, Jr.	{ Eastern Reg. Res. Lab., Philadelphia, Pa.
	Starch molecules	L. P. Witnauer	Eastern Reg. Res. Lab., Philadelphia, Pa.
	Structure of starch granules	G. S. Nutting	Eastern Reg. Res. Lab., Philadelphia, Pa.
	Potato chip manufacture	H. D. Brown	Wooster, Ohio

{ From 1951 Yearbook

## NATIONAL POTATO COUNCIL

**P**OTATO FARMERS, have in the National Potato Council a commodity organization of their own.

The National Potato Council was organized in May, 1948, and opened its Washington office in March, 1949.

The Council has three major objectives (1) to promote the greater consumption of Irish potatoes; (2) to strengthen public good will damaged in recent years by propaganda directed against the industry; and (3) to represent potato farmers on policy matters affecting their crop.

The Council represents most of the commercial production of Irish potatoes in the United States. Every major commercial potato growing area is represented on its Board of Directors.

Officers of the National Potato Council are: E. J. Peters, Wasco, California, President; Sol Lavitt, Ellington, Connecticut, Vice President; Jack B. Bishop, Wayland, N. Y., Secretary; A. K. Gardner, Orono, Maine, Treasurer.

The Council maintains headquarters at 930 F Street, N.W., Washington, D.C., with Whitney Tharin as Executive Secretary.

The four officers and the following men are full members of the Council's Board of Directors, with power to vote: Robert I. Aten, General Manager, D. D. Fritch Co., Macungie, Pennsylvania; John C. Broome, Aurora, North Carolina; Dr. E. W. Cake, Executive Secretary, Association of Virginia Potato and Vegetable Growers, Norfolk, Virginia; W. B. Camp, President, W. B. Camp & Sons, Inc., Bakersfield, California; W. M. Case, Executive Secretary, Red River Valley Potato Growers Association, Grand Forks, North Dakota; A. W. Clinger, Shelley, Idaho; J. Abney Cox, Princeton, Florida; W. C. Cullen, Jr., Painter, Virginia; Ben Davidson, Administrator, Oregon Potato Commission, Redmond, Oregon; Amherst W. Davis, Chairman, Suffolk County Farm Bureau, Mt. Sinai, Long Island, New York; William B. Duryee, New Jersey Potato Industry Committee, Allentown, New Jersey; Ivan Miller, Vice President, Pennsylvania Cooperative Potato Growers, Inc., Corry, Pennsylvania; W. B. Nock, Snow Hill, Maryland; Ferris S. Owen, Vice President, Ohio Vegetable and Potato Growers Association, Newark, Ohio; W. J. Prosser, Secretary-Treasurer, Potato Growers of Wisconsin, Inc., Antigo, Wisconsin; Jack Renfro, Hereford, Texas; Harry E. Umphrey, President, Aroostook Potato Growers, Inc., Presque Isle, Maine.

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## State Agricultural Colleges and Experiment Stations

Many of our readers have occasion to write to the various State Agricultural Colleges, Extension Service or Experiment Stations concerning potato problems. In most states the State College or University, the Extension Service, and the Experiment Station are located in the same city or town. There are, however, a few exceptions as in Arkansas, where the Extension Services operate out of Little Rock; in Connecticut there is an Experiment Station at New Haven; in Georgia at College Station; in New York at Geneva; and in Ohio at Wooster.

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(Continued on Page 69)

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*Information on Certified Brand Seed Potatoes*

**State Seed Department**

College Station, Fargo, N. Dak.

*Information on North Dakota Certified Seed Potatoes*

**Pennsylvania Salt Mfg. Co.**

Philadelphia 7, Pa.

*Literature on Potato Dusts, Sprays and Penites, for Killing Potato Tops*

**Phelps Dodge Refining Corp.**

40 Wall Street, New York, N. Y.

*Bordeaux Mixture—Its Preparation and Use*

*Basic Copper Sulphate for Your Sprays and Dusts*

*Zinc Sulphate As Used in Agriculture*

**Potato Association of America**

New Brunswick, N. J.

*American Potato Journal*

**National Rain Bird Sales and Engineering Corp.**

627 North Gabriel Ave., Azusa, Calif.

*Complete Details on Rain Bird Sprinklers Designed for your Irrigation Problems*

**Rohm & Haas Company**

Washington Square, Philadelphia 5, Pa.

*A Message for Potato Growers*

*Bigger Yields of Quality Vegetables*

*Better Quality—Higher Yields from*

*Superior Disease Control*

**Seaman Bag Company**

2512 S. Damen Ave., Chicago 8, Ill.

*Information on New and Used Potato Bags*

**Singer Mfg. Co.**

Smithville, Ohio

*Let Singer Ideal Conveyors Do Your Heavy Lifting*

**South Dakota Potato Growers Association**

Watertown, S. D.

*Information on South Dakota Certified Seed Potatoes*

**The Summers Fertilizer Co., Inc.**

210 E. Redwood St.

Baltimore 2, Md.

*Best on Earth*

*Are You Interested in Increasing Your Acreage Yield?*

*What Could You Do with \$260.00 Extra Each Year?*

*What Is in a Bag of Fertilizer?*

**New York Mercantile Exchange**

Hudson and Harrison Streets

New York 13, N. Y.

*Information on Future Trading in Potatoes*

**Nebraska Certified Potato Growers Alliance, Neb.**

*Information on Nebraska Certified Seed Potatoes*

**Tennessee Corporation**

Atlanta 1, Georgia

*Mineralize Your Soil with Es-Min-El For Crop Protection Use Tri-Basic Copper Sulphate*

*"Microgel" The Improved Copper Fungicide*

**The Trescott Company**

Dept. Y, Fairport, N. Y.

*New Illustrated Folder Giving Full Information on Potato Handling and Grading Equipment and Providing the Answer to many Potato Handling Problems.*

**Albert E. Trexler**

Trexler, Penna.

*Trexler Power Seed Potato Cutter*

**The Washburn Company**

28 Union St., Worcester, Mass.

*Rubber-coated Farm Baskets for Potato Harvesting, General Crop Handling*

**Washington Excelsior and Mfg. Co.**

871 Othello St., Seattle, Wash.

*Information on Potato and Onion Car Floor Pads*

**Werthan Bag Corporation**

Nashville 1, Tenn.

*Information on Burlap and Cotton Bags*

## WASHINGTON

### Excelsior & Mfg. Co.

•

Manufacturers

VICTOR

Potato & Onion Carfloor Pads

•

SEATTLE, WASHINGTON

871 Othello St.

Ranier 5511

## REVISED ESTIMATE OF WORLD POTATO PRODUCTION BELOW PREWAR

The revised estimate of potato production in the 1951-52 season in 70 countries is 7.8 billion bushels. This is 12 percent less than the 1950-51 crop of 8.9 billion bushels and 6 percent less than the 5-year (1935-39) average production of 8.3 billion bushels.

Much of this estimated reduction occurred in countries of Eastern Europe, including such very large producers as Poland, the Soviet Union, Eastern Germany and Czechoslovakia. The estimates for some of these countries may not be especially reliable but there was known to have been extensive drought in this area in 1951. One report from Poland stated that the drought was the worst in many decades with no rain in the 1951 season after August 18. Supplies of potatoes were so short that potatoes had to be imported, while normally Poland is an exporter. In Czechoslovakia potato rationing was reinstated for the first time since the 1947-48 season and the ration was reportedly lower than for most of the time during and after the war. From Eastern Germany came reports of supply difficulties—consumers standing in line. There were also reports of early summer drought and slow harvest in some potato-producing regions of the Soviet Union. Thus the drought seems to have involved one of the most concentrated potato-producing areas in the world. The estimated reduction below 1950 for these 4 countries is 15 percent.

There was drought in some minor producing areas also. In the Union of South Africa, for example, drought cut the 1951 production 29 percent below 1950. Also in parts of the Middle East, Lebanon-Syria, there was shortage of moisture so that the 1951 production was 19 percent below 1950.

### Moisture Reduced Production

Production was reduced in other areas of the world also but not because of drought. In Western Europe the 1951 production was reduced 5 percent below 1950. This was caused largely by too much moisture, cold temperatures, outbreaks of potato diseases and reduced acreage. In much of Northern and Western Europe the 1951 weather was cold and wet. The late spring delayed planting and sprouting of potatoes and heavy precipitation during the growing season prevented adequate cultivation. In Norway, the United Kingdom, France, Germany and others, infestations of blight were reported. The blight was reported to have been especially virulent in some countries. There was also reduction of acreage in some of the more important countries. Acreage in the United Kingdom dropped 15 percent below 1950, the Netherlands 6 percent, France 3 percent and Western Germany 1 percent.

### Southern Europe A Bright Spot

In Southern Europe the situation was quite the opposite. While acreage increased slightly the weather was much more favorable. Possibly the brightest spot in the world for potato production in the past season was in Southern Europe, including Spain, Italy, Yugoslavia and areas nearby. In Yugoslavia for example, the 1951 production was estimated to be 59 percent larger than the small crop of 1950, while in Italy the increase was 19 percent and in Spain 44 percent. The increase in this general area, however, does not so much represent an outstanding bumper crop as it does a recovery from a very bad drought in 1950. For example, the crop in Yugoslavia, while 59 percent above 1950, was still 2 percent below the prewar average and in Spain, while 44 percent above 1950 was 13 percent below prewar. In Italy the 1951 production was 7 percent above prewar.

## Large Spanish Production

Spanish production was so large in 1951 that an exportable surplus was available as in prewar years. In the last few weeks about 350,000 bushels of Spanish potatoes have arrived in the United States. Before the war Spain exported about 3 million bushels annually, but in recent years has exported only a few hundred thousand bushels and imported 2 to 4 million bushels annually.

The 1951 outturn in North America was 36 percent below 1950. Here the combined United States and Canadian production is normally 98 percent of the total. This sharp reduction was partially due to reduced yields which in 1951 averaged 7 percent below 1950 but principally due to reduced acreage. The combined United States - Canadian acreage in 1951 was 20 percent below 1950 and 51 percent below prewar. Because of the reduced production the 1951-52 trade of potatoes between Canada and the United States has been reduced to only a fraction of other recent years. However, supplies have been adequate, although prices high, and there were no burdensome surpluses as in some other recent years.

Continent and country	Acreage			Yield per acre			Production		
	Average 1940-44	1950	1951	Average 1940-44	1950	1951	Average 1940-44	1950	1951
	1,000 acres	1,000 acres	1,000 acres	Bu.	Bu.	Bu.	1,000 bushels	1,000 bushels	1,000 bushels
<b>North America</b>									
Canada .....	547	517	410	136	191	166	74,495	98,895	67,947
El Salvador .....	1	2	2	33	50	50	32	100	100
Guatemala .....	10	10	10	46	47	47	463	470	470
Honduras .....	3	4	4	18	38	38	50	150	150
Mexico .....	60	74	75	65	67	60	3,892	4,955	4,500
Panama, Republic of ..	1	1	1	50	50	50	30	70	70
United States .....	2,844	1,696	1,353	137	253	241	388,765	429,896	325,708
Bermuda .....	2	1	1	45	45	45	90	40	41
Cuba .....	14	25	25	128	132	120	1,792	3,300	3,000
Dominican Republic ..	3	3	3	36	50	50	89	79	85
Jamaica .....	2	3	3	35	40	40	77	80	80
<b>Total .....</b>	<b>3,487</b>	<b>2,336</b>	<b>1,887</b>	<b>135</b>	<b>230</b>	<b>213</b>	<b>469,775</b>	<b>538,935</b>	<b>402,151</b>
<b>Europe</b>									
Albania .....	2	3	3	50	50	50	100	150	150
Austria .....	443	454	469	182	206	204	80,707	93,611	95,533
Belgium .....	258	243	221	291	350	335	75,030	85,157	74,074
Bulgaria .....	78	45	45	86	67	84	6,693	3,000	3,800
Czechoslovakia .....	1,761	1,500	1,500	146	183	160	257,865	275,000	240,000
Denmark .....	219	259	260	258	262	276	56,480	67,975	71,723
Finland .....	164	210	210	209	212	216	34,326	44,459	45,439
France .....	3,014	2,767	2,685	137	192	184	413,375	530,230	494,530
Germany:									
Western Zone .....	2,627	2,800	2,760	252	367	321	662,600	1,027,000	885,600
Eastern Zone .....	1,900	2,000	2,000	266	239	206	505,000	480,000	410,000
Greece .....	54	85	93	60	150	163	3,218	12,768	15,160
Hungary .....	896	680	680	109	66	88	97,657	45,000	60,000
Iceland .....	2	2	2	150	184	180	435	367	360
Ireland .....	408	337	321	293	321	326	119,713	108,267	104,533
Italy .....	1,046	947	955	93	92	108	97,283	87,287	103,546
Luxembourg .....	27	20	20	205	276	250	5,522	5,529	5,000
Malta .....	4	7	7	85	75	95	508	480	450
Netherlands .....	448	410	334	308	363	363	137,987	148,878	139,463
Norway .....	175	146	145	247	281	257	43,158	41,006	37,294
Poland .....	6,500	6,500	6,500	181	208	154	1,176,000	1,355,000	1,000,000
Portugal .....	114	217	216	248	191	206	28,325	41,437	44,416
Rumania .....	493	450	450	112	67	89	55,355	30,000	40,000
Spain .....	1,090	882	914	127	117	163	138,676	103,308	148,810
Sweden .....	346	322	323	208	198	199	72,100	63,713	64,338
Switzerland .....	182	137	140	289	303	276	52,651	41,527	38,580
United Kingdom .....	1,213	1,235	1,050	263	287	295	318,976	354,928	309,269
Yugoslavia .....	727	600	573	105	64	107	76,042	38,145	60,771
<b>Total excl. U.S.S.R. ....</b>	<b>24,193</b>	<b>23,258</b>	<b>22,926</b>	<b>187</b>	<b>219</b>	<b>196</b>	<b>4,515,782</b>	<b>5,084,222</b>	<b>4,492,839</b>
<b>U.S.S.R. (Europe and Asia ..)</b>	<b>21,000</b>	<b>23,400</b>	<b>23,400</b>	<b>133</b>	<b>124</b>	<b>111</b>	<b>2,800,000</b>	<b>2,900,000</b>	<b>2,600,000</b>

Continent and country	Acreage			Yield per acre			Production		
	Average 1940-44	1950	1951 <sup>1</sup>	Average 1940-44	1950	1951 <sup>1</sup>	Average 1940-44	1950	1951 <sup>1</sup>
	1,000 acres	1,000 acres	1,000 acres	Bu.	Bu.	Bu.	1,000 bushels	1,000 bushels	1,000 bushels
<b>ASIA</b>									
Cyprus .....	7	11	12	114	148	142	843	1,626	1,760
Indonesia .....	14	18	18	73	56	56	1,025	1,000	1,000
Israel <sup>2</sup> .....	4	4	4	234	225	238	938	900	950
Lebanon .....	3	11	7	3	107	124	3	1,176	919
Syria .....	413	9	10	4100	106	81	41,311	955	808
Turkey .....	176	211	210	62	117	109	10,946	24,618	22,898
Japan .....	468	474	488	151	189	193	70,876	89,731	94,310
North Korea .....	261	260	260	69	62	62	17,937	16,000	16,000
South Korea .....	82	120	94	70	58	80	5,763	7,000	7,529
Philippine Islands .....	1	1	1	70	70	70	8	8	8
Total .....	1,026	1,119	1,104	107	128	132	109,647	143,014	146,122
<b>South America</b>									
Argentina .....	472	560	457	93	102	101	43,741	57,268	45,929
Brazil .....	219	368	370	82	73	73	17,973	26,702	26,914
Chile .....	132	127	130	129	117	127	17,047	14,850	16,534
Colombia .....	221	250	250	67	79	72	14,786	19,841	18,000
Ecuador .....	62	60	60	66	18	50	4,092	1,082	3,000
Peru .....	347	531	482	69	85	82	24,045	45,121	39,609
Uruguay .....	25	25	27	54	73	68	1,345	1,820	1,837
Venezuela .....	15	12	12	37	83	92	551	1,000	1,100
Total .....	1,493	1,933	1,788	83	87	86	123,580	167,684	152,923
<b>Africa</b>									
Algeria .....	37	50	65	93	163	139	3,453	8,173	9,040
Belgian Congo .....	6	7	7	50	71	71	313	500	500
Egypt .....	20	26	26	150	226	230	3,010	5,879	5,989
Eritrea .....	2	2	2	30	38	38	59	75	75
Madagascar .....	29	50	50	61	64	68	1,764	3,210	3,380
Mauritius .....	1	1	1	75	130	130	24	130	130
Mozambique .....	2	1	1	86	120	120	91	120	120
Nigeria and Cameroons .....	2	1	1	37	40	40	54	40	40
Southern Rhodesia .....	4	4	4	101	100	100	376	400	400
Tunisia .....	4	5	5	119	110	120	451	551	600
Union of South Africa .....	90	170	170	76	72	51	6,822	12,238	8,675
Total .....	197	317	332	83	99	87	16,417	31,316	28,949
<b>Oceania</b>									
Australia .....	159	124	125	129	111	112	20,531	13,709	14,000
New Zealand .....	23	16	13	198	262	243	4,554	4,200	3,155
Total .....	182	140	138	138	128	124	25,085	17,909	17,155
World Total .....	51,578	52,503	51,575	156	169	152	8,060,286	8,882,180	7,840,139

<sup>1</sup> Preliminary. <sup>2</sup> Jewish farming only. <sup>3</sup> Included with Syria. <sup>4</sup> Includes Lebanon.

Office of Foreign Agricultural Relations. Prepared or estimated on the basis of official statistics of foreign governments, reports of U. S. Foreign Service officers, results of office research and other information. Years shown refer to year of harvest in the Northern Hemisphere and includes the harvest immediately following in the Southern Hemisphere. Averages are for years stated or for the nearest comparable period. The yields per acre for countries having a small production were calculated on the basis of unrounded estimates of acreage.

This is one of a series of regularly scheduled reports on world agricultural production approved by the Office of Foreign Agricultural Relations Committee on Foreign Crop and Livestock Statistics. It is based in part upon U. S. Foreign Service reports.

## BUYER'S GUIDE

The firms listed below have materials or supplies of interest to those in the Potato Industry.

(Names set in **BLACK TYPE** indicate that the company has an advertisement on another page.)

**AIR CONDITIONING UNITS**

(For Potato Storage)

**Aeroglide Corporation**, 510 Glenwood Ave., Raleigh, N. C.

**BAG CLOSERS**

**Aeroglide Corporation**, 510 Glenwood Ave., Raleigh, N. C.

**Hamer Machine Company**, 607 Marquette Ave., Minneapolis 2, Minn.

**BAG LOADERS**

**Paramount Manufacturing Co.**, 1615 East Main St., Stockton, Calif.

**Singer Mfg. Co.**, Smithville, Ohio.

**The Trescott Company, Inc.**, Dept. Y, Fairport, N. Y.

**BAGGING MACHINE**

**Aeroglide Corporation**, 510 Glenwood Ave., Raleigh, N. C.

**John Bean Mfg. Co.**, Lansing 4, Mich.

**Lockwood Graders**, Gering, Neb.

**Paramount Manufacturing Co.**, 1615 East Main St., Stockton, Calif.

**The Trescott Company, Inc.**

Dept. Y, Fairport, N. Y.

**BAG TYING EQUIPMENT**

**Hamer Machine Company**, 607 Marquette Ave., Minneapolis 2, Minn.

**BAGS (Burlap)**

**Chase Bag Co.**, 309 West Jackson Blvd., Chicago, 6, Ill.

**Max Katz Bag Co.**, 312-16 So. New Jersey St., Indianapolis 4, Ind.

**Maine Potato Growers**, Presque Isle, Maine

**Seaman Bag Company**, 2512 S. Damen Ave., Chicago 8, Ill.

**Werthan Bag Corporation**, Nashville 1, Tenn.

**BAGS (Cotton)**

**Werthan Bag Corporation**, Nashville 1, Tenn.

**BAGS (Paper)**

**Chase Bag Co.**, 309 West Jackson Blvd., Chicago 6, Ill.

**Equitable Paper Bag Co.**, 45-50 Van Dam St., Long Island City 1, N. Y.

**Max Katz Bag Co.**, 312-316 S. New Jersey St., Indianapolis 4, Ind.

**Seaman Bag Company**, 2512 S. Damen Avenue, Chicago 8, Ill.

**BARRELS (Potato)**

**Atlantic Cooperage Company**, 52 Maple Street, Brewer, Maine.

**BASKETS (Wire, Rubber Coated, Plastic Coated)**

**Washburn Company**, 28 Union St., Worcester, Mass.

**BIN LOADERS**

**Paramount Manufacturing Co.**, 1615 East Main St., Stockton, Calif.

**Singer Mfg. Co.**, Smithville, Ohio.

**The Trescott Company**, Dept. Y, Fairport, N. Y.

**BROKERS (Potato Futures)**

**Merrill Lynch, Pierce, Fenner and Beane**, 70 Pine St., New York 5, N. Y.

**Merrill Lynch, Pierce, Fenner and Beane**, Board of Trade Bldg., Chicago 4, Ill.

**New York Mercantile Exchange**, 6 Harrison St., New York 13, N. Y.

**A. L. Stamm and Co.**, 120 Broadway, New York 5, N. Y. (Attention Harry H. Wolfe.)

**CAR FLOOR PAD**

**American Excelsior Corp.**, 1000 No. Halsted St., Chicago 22, Ill.

**Washington Excelsior & Mfg. Co.**, 871 Othell St., Seattle, Wash.

**CONVEYORS**

**Aeroglide Corporation**, 510 Glenwood Ave., Raleigh, N. C.

**Lockwood Graders**, Gering, Neb.

**Paramount Manufacturing Co.**, 1615 East Main St., Stockton, Calif.

**CRATES**

**Atlantic Cooperage Co.**, 52 Maple St., Brewer, Maine.

**CULTIVATORS**

**Deere and Company**, Moline, Ill.

**CUTTERS**

**Lockwood Graders**, Gering, Neb.

**Albert E. Trexler**, P.O. Lenhartsville, Pa.

**DIGGERS (Elevator)**

**Chase Plow Company**, 600 West P Street, Lincoln 1, Neb.

**Deere and Company**, Moline, Ill.

**DISINFECTANTS (Seed)**

**E. I. duPont de Nemours & Co.**, Wilmington 98, Del.

**Faesy and Besthoff, Inc.**, 325 Spring St., New York 13, N. Y.

**DISTRIBUTORS (Fertilizers, Lime, etc.)**

**Deere and Company**, Moline, Ill.

**Phelps Dodge Refining Corp.**, 40 Wall St., New York 5, N. Y.

**DRILLS (Grain and Grass)**

**Deere and Company**, Moline, Ill.

**Lockwood Graders, Inc.**, Gering, Nebr.

**Paramount Manufacturing Co.**, 1615 East Main St., Stockton, Calif.

**Singer Mfg. Co.**, Smithville, Ohio.

**The Trescott Company**, Dept. Y, Fairport, N. Y.

**DRYERS**

**Aeroglide Corporation**, 510 Glenwood Ave., Raleigh, North Carolina.

**Lockwood Graders, Inc.**, Gering, Nebr.

**Paramount Manufacturers**, 1615 East Main St., Stockton, Calif.

**FERTILIZERS**

Faesy and Besthoff, Inc., 325 Spring St., New York 13, N. Y.  
 Int'l Minerals & Chem. Corp., 20 No. Wacker Dr., Chicago 6, Ill.  
 Nebraska Certified Potato Growers, Alliance, Neb.  
 Phelps Dodge Refining Corp., 40 Wall St., New York 5, N. Y.  
 Summers Fertilizer Co., 604 Stock Exchange Bldg., Baltimore 2, Md.  
 Tennessee Corporation, 619 Grant Bldg., Atlanta 1, Ga.

**FERTILIZER MACHINES**

Deere and Company, Moline, Ill.

**FUNGICIDES**

Chipman Chemical Co., Inc., Bound Brook, N. J.  
 Corona Chemical Division (Pittsburgh Plate Glass Co.), Pittsburgh 19, Pa.  
 E. I. duPont de Nemours & Co., Wilmington 98, Del.  
 Faesy and Besthoff, Inc., 325 Spring St., New York 13, N. Y.  
 General Chemical Division, Allied Chemical and Dye Corp., 40 Rector St., New York 6, N. Y.  
 Nebraska Certified Potato Growers, Alliance, Neb.  
 Phelps Dodge Refining Corp., 40 Wall St., New York 5, N. Y.  
 Pittsburgh Agricultural Chemical Co., 350 Fifth Ave., New York 1, N. Y.  
 Rohm and Haas Co., West Washington Square Philadelphia 5, Pa.  
 Tennessee Corporation, 619 Grant Bldg., Atlanta 1, Ga.

**GRADERS & SORTERS**

Aeroglide Corporation, 510 Glenwood Avenue, Raleigh, N. C.  
 Maine Potato Growers, Presque Isle, Maine.  
 The Trescott Company, Inc., Dept. Y, Fairport, N. Y.

**HARROWS (Disc)**

Deere and Company, Moline, Ill.

**HARROWS (Spring Tooth)**

Deere and Company, Moline, Ill.

**HERBICIDES**

Faesy and Besthoff, Inc., 325 Spring St., New York 13, N. Y.  
 General Chemical Division, Allied Chemical and Dye Corp., 40 Rector St., New York 6, N. Y.  
 Penn's Manor Products, Simons and Dungan Ave., Cornwell's Heights, Penna.  
 Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa.  
 Thompson Chemicals Corporation, 3028 Locust, St. Louis 3, Mo.

**INSECTICIDES**

Chipman Chemical Co., Inc., Bound Brook, N. J.  
 Corona Chemical Division, Pittsburgh Plate Glass Co., 2000 Grant Bldg., Pittsburgh 19, Pa.  
 E. I. duPont de Nemours & Co., Wilmington 98, Del.  
 Faesy and Besthoff, Inc., 325 Spring St., New York 13, N. Y.  
 General Chemical Division, Allied Chemical and Dye Corp., 40 Rector St., New York 6, N. Y.  
 Nebraska Certified Potato Growers, Alliance, Neb.  
 Penn's Manor Products, Simons and Dungan Ave., Cornwell's Heights 32, Penna.  
 Pennsylvania Salt Mfg., 1000 Widener Building, Philadelphia 7, Pa.  
 Pittsburgh Agricultural Chemical Co., 350 Fifth Ave., New York 1, N. Y.  
 Rohm and Haas Co., West Washington Square, Philadelphia 5, Pa.  
 Tobacco By-Products and Chemical Corp., 401 East Main St., Richmond, Va.

**INSPECTION TABLES**

Aeroglide Corporation, 510 Glenwood Ave., Raleigh, N. C.  
 Paramount Manufacturers, 1615 East Main St., Stockton, Calif.  
 The Trescott Company, Dept. Y, Fairport, N. Y.

**IRRIGATION & DRAINAGE EQUIPMENT**

Couplings (Pipe)  
 Irrigation Equipment Co., Inc., Eugene, Ore.  
 Pipe (Portable Irrigation)  
 Irrigation Equipment Co., Inc., Eugene, Ore.  
 Sprinklers  
 National Rain Bird Sales and Engineering Corp., 627 North San Gabriel Ave., Azusa, Calif.

**MINERALS**

Tennessee Corporation, 619 Grant Bldg., Atlanta 1, Ga.

**PACKAGING EQUIPMENT**

Aeroglide Corp., 510 Glenwood Ave., Raleigh, N. C.  
 Paramount Manufacturing Co., 1615 East Main St., Stockton, Calif.  
 The Trescott Company, Inc., Dept. Y, Fairport, N. Y.

**PICKERS & BAGGERS**

Paramount Manufacturing Co., 1615 East Main St., Stockton, Calif.  
 The Trescott Company, Dept. Y, Fairport, N. Y.

**PLANTERS**

Deere and Company, Moline, Ill.  
 Nebraska Certified Potato Growers, Alliance, Neb.

**PLOWS (Tractor)**

Deere and Company, Moline, Ill.

**PRE-COOLERS**

Aeroglide Corporation, 510 Glenwood Ave., Raleigh, N. C.

**PUBLISHERS (Book on Potatoes)**

Comstock Publishing Company, 124 Roberts Place, Ithaca, N. Y. (A division of Cornell Univ. Press).  
 Macfarland Publications, 319 Scotch Plains Ave., Westfield, N. J.

**SCALES**

Exact Weight Scale Co., 944 West Fifth Ave., Columbus 12, Ohio.

**SCOOPS (Potato)**

Albert E. Trexler, Lenhartsville, Pa.

**SEEDS (Potato)**

Canadian Dept. of Trade and Commerce, Ottawa, Ont.  
 Clark Seed Farms, Richford, N. Y.  
 Maine Development Association, Augusta, Maine.  
 Maine Potato Growers, Presque Isle, Maine.  
 Minnesota State Dept. of Agr., Seed Potato Certification, St. Paul, Minn.  
 Nebraska Certified Potato Growers, Alliance, Neb.  
 N. Y. Certified Seed Growers Cooperative Inc., 320 Plant Science Bldg., Ithaca, N. Y.  
 N. Y. Cooperative Seed Potato Ass'n, Inc., Georgetown, N. Y.  
 North Dakota State Seed Dept., College Station, Fargo, N. D.  
 South Dakota Potato Growers Association, Wattertown, S. Dak.

**SEED TREATING EQUIPMENT**

Lockwood Graders, Gering, Nebr., and Grand Forks, N. D.  
 Paramount Manufacturing Co., 1615 E. Main St., Stockton, Calif.

**SOIL TESTING OUTFITS**

The Edwards Laboratory, P. O. Box 2742G, Cleveland 11, Ohio.

**SPRAYERS & DUSTERS**

Deere and Company, Moline, Ill.  
 Singer Mfg. Co., Smithville, Ohio.

**SPROUT INHIBITORS**

Chipman Chemical Co., Inc., Bound Brook, N. J.  
 Thompson Chemicals Corporation, 3028 Locust, St. Louis 3, Mo.

**TRACTORS (Farm)**

Deere and Company, Moline, Ill.

**VINE KILLERS (Chemical)**

Chipman Chemical Co., Inc., Bound Brook, N. J.  
 Faesy and Besthoff, Inc., 325 Spring St., New York 13, N. Y.  
 General Chemical Division, Allied Chemical and Dye Corp., 40 Rector St., New York 6, N. Y.  
 Pennsylvania Salt Manufacturing Co., 1000 Widener Bldg., Philadelphia 7, Pa.  
 Thompson Chemicals Corporation, 3028 Locust, St. Louis 3, Mo.

**WAREHOUSE EQUIPMENT**

Aeroglide Corporation, 510 Glenwood Ave., Raleigh, N. C.  
 Paramount Manufacturing Co., 1615 East Main Street, Stockton, Calif.

**WASHERS**

Aeroglide Corporation, 510 Glenwood Ave., Raleigh, N. C.  
 Lockwood Graders, Inc., Gering, Nebr., and Grand Forks, N. D.  
 Paramount Manufacturing Co., 1615 East Main St., Stockton, Calif.  
 The Trescott Company, Inc., Dept. Y, Fairport, N. Y.

**WAXERS**

Aeroglide Corporation, 510 Glenwood Ave., Raleigh, N. C.

**WAXING (Potatoes)**

S. C. Johnson and Son, Inc., 1525 Howe St., Racine, Wis.  
 Lockwood Graders, Inc., Gering, Nebr., and Grand Forks, N. D.  
 Paramount Manufacturing Co., 1615 East Main St., Stockton, Calif.

**WEED KILLERS (Chemical)**

Chipman Chem. Co., Inc., Bound Brook, N. J.  
 E. I. duPont de Nemours & Co., Wilmington 98, Del.  
 Faesy and Besthoff, Inc., 325 Spring St., New York 13, N. Y.  
 General Chemical Division, Allied Chemical and Dye Corp., 40 Rector St., New York 6, N. Y.  
 Pennsylvania Salt Mfg. Co., 1000 Widener Bldg. Bldg., Philadelphia 7, Pa.  
 Pittsburgh Agricultural Chemical Co., 350 Fifth Ave., New York 1, N. Y.  
 Thompson Chemical Corporation, 3028 Locust, St. Louis 3, Mo.

**WOOD PRESERVATIVES**

Thompson Chemical Corporation, 3028 Locust, St. Louis 3, Mo.

**INDEX TO ADVERTISERS**

	PAGE
Aeroglide Corp. ....	67
American Excelsior Corp. ....	10
Canadian Dept. of Trade and Commerce .....	31
Chipman Chemical Company .....	5
John Deere .....	2
E. I. du Pont de Nemours .....	62
Exact Weight Scale Co. ....	21
Faesy and Besthoff, Inc. ....	57
General Chemical Division .....	27
Hamer Machine Co. ....	51
Irrigation Equipment Company, Inc. ....	59
Lockwood Graders .....	66
Maine Division of Plant Industry .....	40, 41
Maine Potato Growers, Inc. ....	29
State of Minnesota, Dept. of Agriculture .....	6
National Rain Bird Sales and Engineering Corp. ....	15
Nebraska Certified Potato Growers ..	26
New York Certified Seed Growers Cooperative, Inc. ....	8
New York Co-op Seed Potato Ass'n, Inc. ....	9
New York Mercantile Exchange .....	33
North Dakota State Seed Dept. ....	55
Pennsylvania Salt Mfg. Co. ....	17
Phelps Dodge Refining Co. ....	43
Pittsburgh Plate Glass Co. ....	9
Potato Association of America .....	Back Cover
Rohm and Haas Company .....	37
Seaman Bag Co. ....	68
Singer Mfg. Co. ....	67
South Dakota Potato Growers Ass'n. ....	11
Summers Fertilizer Co., Inc. ....	12
The Trescott Company, Inc. ....	35
Tennessee Corporation .....	4
Albert E. Trexler .....	11
Washburn Company .....	14
Washington Excelsior & Mfg. Co. ....	69
Werthan Bag Corp. ....	66

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## MORE FOR YOUR MONEY

Many fresh fruits and vegetables are "best buys" because they provide more all-around nutrition per dollar than other foods

This table shows the quantity of nutrients available for 1¢ spent for each of the various commodities listed below at a representative store of a large national chain at Washington, D. C., February 5, 1951. The table provides data on a good representation of food including meat, dairy products, grains, tubers, root vegetables, leafy green vegetables, citrus fruit and deciduous fruit.

Commodity	Food Energy Cal.	Protein G.	Fat Oz.	Total Hydro. Oz.	Cal. Hydr. Mg.	Pot. Phos. Mg.	Iron Mg.	Vitamin A I.U.	Thiamine Mg.	Riboflavin Mg.	Niacin Mg.	Ascorbic Acid Mg.
POTATOES	7,550	180	10	1,280	1,050	1,285	68	1,750	10.0	2.75	110.0	1,000
Apples	2,350	12	16	150	500	400	22	2,800	1.6	1.3	72	150
Bread	7,250	241	31	1,470	2,345	2,612	59	0	9.9	4.4	63.5	0
Carrots	1,353	26	0	233	1,135	1,125	24	254,000	1.7	1.8	12.5	150
Grapefruit	1,975	25	10	503	1,085	896	19	312	1.3	0.9	10.0	2,000
Ham, Smoked	2,326	97	200	3	58	778	14	0	0.9	1.97	32.0	0
Jellies	4,236	3	0	1,000	500	300	1	185	0.3	0.4	2.6	60
Kale	839	59	13	169	4,978	1,393	49	165,320	2.3	2.7	65.0	2,500
Milk	1,345	30	49	111	2,820	2,110	3	2,600	0.3	2.9	3.5	50
Onions	2,855	120	13	255	2,765	2,765	45	1,500	2.3	2.0	10.0	700
Oranges	2,102	41	10	324	1,544	1,772	19	3,860	2.6	1.3	11.4	2,310
Brussels	2,675	165	10	900	5,200	2,950	28	32,500	7.3	7.5	94.0	2,500
Steak, Round	873	73	41	0	41	643	11	0	0.3	2.6	17.2	0
Sweet Potatoes	5,325	77	20	1,157	1,305	2,125	29	232,233	4.1	2.43	27.7	254

1 Boiled whole head.

2 Fresh whole milk.

3 Cooked whole milk.

4 Cooked whole milk.

5 Cooked whole milk.

6 Cooked whole milk.

7 Cooked whole milk.

8 Cooked whole milk.

9 Cooked whole milk.

10 Cooked whole milk.

11 Cooked whole milk.

12 Cooked whole milk.

13 Cooked whole milk.

14 Cooked whole milk.

15 Cooked whole milk.

Cal. = calories; "Mg." is milligrams; "I.U." is International Units; Pot. = potassium; Phos. = phosphorus; Iron = iron; Vitamin A = Vitamin A; Thiamine = Thiamine; Riboflavin = Riboflavin; Niacin = Niacin; Ascorbic Acid = Ascorbic Acid. Additional copies of this report available from the Food and Drug Administration, Washington, D.C.

## Why YOU Should Join The POTATO ASSOCIATION of AMERICA

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An organization founded in 1913 to bring together and disseminate information to all individuals interested in the production, transportation, distribution and utilization of potatoes, and the promotion of the potato industry in all its phases.

### What it DOES

- Publishes the *American Potato Journal*, monthly, giving: timely data on the crop from all producing states and provinces of Canada; popular and technical articles on all phases of production, marketing and marketing; reviews of books and articles of general interest on potatoes. The only national publication devoted exclusively to the betterment of the potato industry.
- Holds Annual Meetings, bringing together research workers, growers, shippers, certification officials and others interested in potatoes to discuss new developments in the potato industry.

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- Copy of *American Potato Year Book* (U. S. A. and Canada)
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